Applications

1. Py-GC of P(St-MMA)
   RSD of the monomer peak is guaranteed at most 5%

2. Py-GC of Polyethylene
   Able to analyze n-paraffin up to C72

3. Py-GC of food
   Able to analyze characteristic pungent components from pepper

4. Odor analysis of food
   Trapped odor from cinnamon powder heated at 40°C for 15 minutes

5. VOC analysis of a room
   Collected indoor air using JAS-15M. Detected compounds from cosmetics, hair colot and antiperspirant spray.

6. Odor analysis of flower
   Collected odor from a rose flower using JAS-15M.
Advanced portable pyrolyzer

JCI-55 is a second generation JCI-22, with improved precision for quantitative analysis and ease of use features.

- World first portable injector that is able to inject solid, liquid, or VOC samples into GC/MS in the same manner as a micro syringe injection.

New Features

- **Quantitative Mode**
  With improved constant flow mode, it can achieve more precise quantitative analysis of VOC with mini-PAT.

- **Sample Tube Baking Mode**
  Able to bake mini-PAT (TenaxGR). The baking procedure is pre programmed and requires a simple one push button.

- **Solvent Purge Mode**
  Able to remove water and/or solvent trapped in mini-PAT before analysis of VOC.

  Able to perform qualitative analysis similar to JCI-22.

Various Usage

- **Injection of pyrolyzate**
  synthetic polymer, vulcanized rubber
  - Crimp with Foil crimper
  - Weight the sample
  - Fold the foil over the sample
  - Place sample in a sample tube and set to thermal cell

- **Injection of VOC**
  VOC trapped with mini-PAT
  - Attach mini-PAT to air sample
  - Sample air
  - Place the mini-PAT to thermal cell

- **Injection of outgas**
  vaporized low molecular weight compounds

- **Injection of derivatives**
  methylated carboxylic acid, alcohol, carbolic acid

Specication

<table>
<thead>
<tr>
<th>Probe</th>
<th>Heating System</th>
<th>Curie point heating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pyrolysis</td>
<td>Pyrofoil (160°C~1040°C)</td>
</tr>
<tr>
<td></td>
<td>Oven Heating</td>
<td>1070°C</td>
</tr>
<tr>
<td></td>
<td>Transfer line (Needle upper part)</td>
<td>300°C (at the time of curie point heating)</td>
</tr>
<tr>
<td></td>
<td>Sample Tube</td>
<td>Quartz glass, OD 6mm, Length 36mm</td>
</tr>
<tr>
<td></td>
<td>Needle</td>
<td>Exclusive needle (OD 0.4mm, Length 40mm)</td>
</tr>
<tr>
<td></td>
<td>Connection Cable</td>
<td>2m</td>
</tr>
<tr>
<td></td>
<td>Dimensions</td>
<td>OD 35mm, Length 140mm</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>110g</td>
</tr>
<tr>
<td></td>
<td>Power</td>
<td>AC85~240V, 500VA(Max)</td>
</tr>
</tbody>
</table>

**Controller**

- RF Power: 48W, 600kHz
- Pyrolysis time: 1sec, 10sec, 15sec.
- Output Signal: GC/Start signal
- Model selection: Qualitative analysis Mode, Quantitative analysis Mode, Solvent purge Mode, Baking Mode
- Injection Gas: Helium (at the time of curie point heating)
- Dimension of Mainframe (mm): 155(W)×246(H)×367(D)
- Weight: 7kg

**Standard accessories**

- Sample Tube: 5ea
- Pyrofoil: 1p/k
- Needle for JCI-55: 5ea
- Sample Tube Guide: 2ea

**Controller**

- Foil Crimper: 1ea
- Titanium Tweezers: 1ea
- Flat Nose Pliers: 1ea
- Syringe for Needle Cleaning: 1ea
- Sample Tube Stand: 1ea
- Pyrofoil: 1p/k

**Optimal accessories**

- mini-PAT, with Tenax
- Air Sampler, JAS-15M, with mini-PAT fittings

How to inject

1. Sample setting
2. Air purge and heating oven
3. Start injection

It is as simple as just press start button twice.

pyrofoil Temperature

- pyrofoil Temperature
  - 1040°C
  - 500°C
  - 315°C
  - 920°C
  - 445°C
  - 280°C
  - 764°C
  - 445°C
  - 256°C
  - 740°C
  - 423°C
  - 235°C
  - 670°C
  - 350°C
  - 220°C
  - 590°C
  - 308°C
  - 170°C
  - 580°C
  - 333°C
  - 160°C

21 kinds of pyrofoil between the temperature of 160°C to 1040°C are available.