Consumable Parts Catalogue  Ver.3.06
February, 2012

This catalogue contains consumable parts for:

• Pyrolyzer (EGA/PY-3030D, PY-3030S, PY-2020iD/iS)
• Selective Sampler (SS-1010E)
• MicroJet Cryo-Trap (MJT-1030Ex)
• Auto-Shot Sampler (AS-1020E)
• Micro-UV Irradiator (UV-1047Xe)

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   1.5 Magic Chemisorber
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3. MicroJet Cryo-Trap (MJT-1030E, EX)

4. Auto-shot Sampler (AS-1020E)

5. Micro-UV Irradiator (UV-1047Xe)
1. Pyrolyzer (EGA/PY-3030D, PY-3030S, PY-2020iD/iS)

1.1 Sample Cups

Eco-Cup (Deactivated stainless steel)

**PY1-EC50F**  
Disposable Eco-Cup SF  
50µl, 100 cups

**PY1-EC80F**  
Disposable Eco-Cup LF  
80µl, 100 cups

**PY1-EC50HF**  
Disposable Eco-Cup SHF  
50µl, 20 cups, tiny hole at the bottom

**PY1-EC80HF**  
Disposable Eco-Cup LHF  
80µl, 20 cups, tiny hole at the bottom

**PY1-EH10**  
Eco-Stand  
Stand for Eco-Cup  
1 ea

**PY1-3711**  
Eco Cup Holder, 1ea  
Eco cup holder (10 cups)

**PY1-EP50**  
Eco Pick-Up  
For Eco-Cup recovery, 1 ea

**PY1-ES10F**  
Eco-Stick SF  
30mm, for Single-Shot, 50 sticks

**PY1-ES20F**  
Eco-Stick DF  
80mm, for Double-Shot, 50 sticks
1.2 Pyrolyzer Furnace

Note: some of the parts are only compatible with 2020 or 3030 series

Furnace and Interface parts

EGA/PY-3030D / S parts

PY-2020iD / iS parts

PY1-3018
Pyrolysis tube M30
Quartz, 1pc

PY1-3016
Pyrolysis tube
Quartz, 1pc

PY1-2017
(2 pcs used)
O-Ring(P-6W)
Pyrolysis tube sealing
Translucent silicon rubber, 20pcs

PY1-2017
O-Ring(P-12)
Sampler sealing
Black silicon rubber, 10pcs

PY1-7811

PY1-3512
 Interface Needle Nut
3 pcs, Stainless steel 1/16"
Heat Sink Adapter parts (for connection between pyrolyzer and GC inlet)

Depending on the combination of your GC and pyrolyzer, different part is used.

Please make sure to select parts compatible with your GC.

Part number of heat sink adapter/septum nut set for EGA/PY-3030D and PY-3030S

<table>
<thead>
<tr>
<th>GC</th>
<th>Heat sink adapter set</th>
<th>Septum nut set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent 7890 / 6890</td>
<td>PY1-3551</td>
<td>PY1-3553</td>
</tr>
<tr>
<td>PerkinElmer Auto system / Clarus GC</td>
<td>PY1-3552</td>
<td>PY1-3556</td>
</tr>
<tr>
<td>Shimadzu GC-2010 / 17A</td>
<td>PY1-3551</td>
<td>PY1-3544</td>
</tr>
<tr>
<td>Thermo Fisher TRACE / Focus GC</td>
<td>PY1-3555</td>
<td>*</td>
</tr>
</tbody>
</table>

* ask your GC vendor

Part number of heat sink adapter/septum nut set for PY-2020iD / iS

<table>
<thead>
<tr>
<th>GC</th>
<th>Heat sink adapter set</th>
<th>Septum nut set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent 7890 / 6890</td>
<td>PY1-3570</td>
<td>*</td>
</tr>
<tr>
<td>Perkin Elmer Auto system / Clarus GC</td>
<td>PY1-3576</td>
<td>*</td>
</tr>
<tr>
<td>Shimadzu GC-2010 / 17A</td>
<td>PY1-3570</td>
<td>PY1-7411 and PY1-1034</td>
</tr>
<tr>
<td>Thermo Fisher TRACE / Focus GC</td>
<td>PY1-3575</td>
<td>*</td>
</tr>
</tbody>
</table>

* ask your GC vendor

Sampler parts

PY1-2025  
**Septum**  
For liquid sampler, 20pcs

PY1-2014  
**Needle Guide**  
For liquid sampler, i.d. 0.6mm, 1pc

PY1-7411  
**Needle guide (wide bore)**  
For liquid sampler, i.d. 0.8mm, 1pc

PY1-2112  
**O-Ring (P3)**  
For the purge valve of Double-Shot sampler, 20pcs

GC inlet parts

PY1-7301  
**Septum (11mm)**  
Surface treated, For Agilent GC, 5pcs

PY1-7302  
**Septum**  
Surface treated, For Shimadzu GC, 5pcs

ITF cover parts

AS1-1111  
**ITF cover 2020 for PY-2020iD/iS**  
1pc with 1 screw

AS1-3563  
**ITF cover 3030 for 3030series**  
1pc with 3 screws
1.3 GC related parts

Remote signal cable (for connection between pyrolyzer controller and GC)

Depending on the combination of your GC and pyrolyzer, different remote signal cable is used.

Please make sure to select a part compatible with your GC.

<table>
<thead>
<tr>
<th>GC</th>
<th>EGA/PY-3030D/S</th>
<th>PY-2020ID / IS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent 7890 / 6890</td>
<td>PY1-6111</td>
<td>PY1-5922</td>
</tr>
<tr>
<td>PerkinElmer Auto system / Clarus GC</td>
<td>PY1-6151</td>
<td>PY1-5927</td>
</tr>
<tr>
<td>Shimadzu GC-2010</td>
<td>PY1-6121</td>
<td>PY1-5926</td>
</tr>
<tr>
<td>Shimadzu GC-17A</td>
<td>PY1-6122</td>
<td>PY1-5925</td>
</tr>
<tr>
<td>Thermo Fisher TRACE / Focus GC</td>
<td>PY1-6141</td>
<td>PY1-5928</td>
</tr>
</tbody>
</table>

1 cable each
1.4 Column and EGA tube connection parts

**GC/MS adapter**

Connection between GC/MS ITF and column using GC/MS adapter

<table>
<thead>
<tr>
<th>Part Name</th>
<th>P/N</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS Joint N</td>
<td>MS604251</td>
<td>1</td>
</tr>
<tr>
<td>VF Aluminum Ferrule</td>
<td>MS604254</td>
<td>5</td>
</tr>
<tr>
<td>Column nut*</td>
<td>MS604234</td>
<td>1</td>
</tr>
<tr>
<td>Graphite ferrule</td>
<td>MS604235</td>
<td>10</td>
</tr>
</tbody>
</table>

*Agilent P/N 5181-8830 can be used*

**Vent-free GC/MS adapter**

Connection between VF tube and Separation column/EGA tube

<table>
<thead>
<tr>
<th>Part Name</th>
<th>P/N</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>VF Metal Ferrule A</td>
<td>MS402185</td>
<td>5 pcs</td>
</tr>
<tr>
<td>VF Nut A</td>
<td>MS402186</td>
<td>5 pcs</td>
</tr>
<tr>
<td>Graphite Vespel ferrule</td>
<td>MS402159</td>
<td>10 ea</td>
</tr>
<tr>
<td>Column Nut</td>
<td>MS402165</td>
<td>1 ea</td>
</tr>
<tr>
<td>Vent-free (VF) gold ferrule</td>
<td>MS604234</td>
<td>20 ea</td>
</tr>
</tbody>
</table>

**MS402159**

VF adapter A-50
0.15mm i.d, 50 cm, 1ea

**UP1-7001**

File for capillary tubes
1 ea
1.5 Magic Chemisorber

**PY1-MC01S**
- Magic Chemisorber S500
- 100% dimethylpolysiloxane,
- 500 µm, 6 mm, 10 pcs,
- Use with PY1-EC80HF or PY1-EC80F

**PY1-MC01L**
- Magic Chemisorber L500
- 100% dimethylpolysiloxane,
- 500 µm, 30 mm, 5 pcs,
- Use with PY1-MCP01

**PY1-MCP01**
- MC holder L
- Deactivated stainless steel,
- 3 pcs

**PY1-MC01L-K**
- Magic Chemisorber L500 Kit
- Magic Chemisorber L500 3pcs,
- Eco stick DF 5 pcs, MC holder L 2pcs

**PY1-MC01S-K**
- Magic Chemisorber S500 Kit
- Magic Chemisorber S 3pcs,
- Eco Stick DF 5pcs,
- MC holder S (Flow Through Eco-cup LHF) 5pcs

1.6 Sampling tools

**Harris Micro-Puncher**

<table>
<thead>
<tr>
<th>Name</th>
<th>P/N</th>
<th>Diameter (i.d.)</th>
<th>Qtty</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harris Micro-Puncher 050</td>
<td>HMP-0.50D</td>
<td>0.50mm</td>
<td>10</td>
<td>Blue</td>
</tr>
<tr>
<td>Harris Micro-Puncher 075</td>
<td>HMP-0.75D</td>
<td>0.75mm</td>
<td>10</td>
<td>Green</td>
</tr>
<tr>
<td>Harris Micro-Puncher 125</td>
<td>HMP-1.25D</td>
<td>1.25mm</td>
<td>10</td>
<td>Red</td>
</tr>
<tr>
<td>Harris Micro-Puncher 200</td>
<td>HMP-2.00D</td>
<td>2.00mm</td>
<td>10</td>
<td>Black</td>
</tr>
<tr>
<td>Harris Micro-Puncher 300</td>
<td>HMP-3.00D</td>
<td>3.00mm</td>
<td>10</td>
<td>Navy</td>
</tr>
<tr>
<td>Harris Micro-Puncher 400</td>
<td>HMP-4.00D</td>
<td>4.00mm</td>
<td>10</td>
<td>Brown</td>
</tr>
<tr>
<td>Harris Micro-Puncher 500</td>
<td>HMP-5.00D</td>
<td>5.00mm</td>
<td>10</td>
<td>Orange</td>
</tr>
<tr>
<td>Harris 02 kit</td>
<td>HMP-02KIT</td>
<td>3 ea of 0.5 / 0.75 / 1.25 / 2.0 mm (Total 12 ea)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ea of 3.0 / 4.0 / 5.0 mm (Total 6 ea)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cutting Mat 2 ea</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Polymer Prepper**

**PY1-7510**

**Polymer Prepper kit**
- Polymer Prepper, 3pcs
- Cleaning tape (2m, P/N: PY1-7515), 1ea
2. Selective sampler (SS-1010E)

Connection parts for GC inlet
Depending on the combination of your GC and pyrolyzer, different part is used.
Please make sure to select parts compatible with your GC.

<table>
<thead>
<tr>
<th>GC</th>
<th>SS Adapter Packing</th>
<th>SS Adapter</th>
<th>Thermal Insulation Cup</th>
<th>Securing nut</th>
<th>Graphite ferrule</th>
<th>Column nut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent 7890 / 6890</td>
<td>SS1-1011</td>
<td>SS1-1001</td>
<td>SS1-1012</td>
<td>SS1-1013</td>
<td>PY1-7971</td>
<td>MS604234**</td>
</tr>
<tr>
<td>Shimadzu GC-2010 / 17A</td>
<td>SS1-2011</td>
<td>SS1-2001</td>
<td>SS1-2012</td>
<td>not necessary *</td>
<td>PY1-7203</td>
<td>SS1-7201***</td>
</tr>
<tr>
<td>Thermo Fisher TRACE GC</td>
<td>SS1-3011</td>
<td>SS1-3001</td>
<td>SS1-3012</td>
<td>SS1-1013</td>
<td>PY1-7971</td>
<td>SS1-7301</td>
</tr>
<tr>
<td>Thermo Fisher Focus GC</td>
<td>SS1-3011</td>
<td>SS1-3001</td>
<td>SS1-3022</td>
<td>SS1-1013</td>
<td>PY1-7971</td>
<td>SS1-7301</td>
</tr>
</tbody>
</table>

* Standard screws for GC are used
** Agilent column nut (Agilent P/N: 5181-8830) can be used
*** Shimadzu column nut (Shimadzu P/N: 221-32705) can be used

Other parts

- **Purge Line Kit**
  Whole assembly connecting SS Adapter and SS-1010E flow controller, 1 set
  Connection nut and packing, 3 sets

- **Valve Control Cable**
  For controlling SS-1010E from PY Temp. controller, 1 set

- **Deactivated Glass Insert**
  For Agilent GC, Deactivated, 1 ea
3. MicroJet Cryo-trap (MJT-1030E, Ex)

**MicroJet Tube**
Quartz, 1 pcs

**MicroJet Tube Union**
For securing MicroJet Tube, 1 set

**Graphite Ferrule**
For MicroJet Tube, 5 pcs

**LN2 saver**
2 pcs

MJT parts in GC oven

**Liquid Nitrogen Container**

**Bench Top Liquid Nitrogen Container Set (MJ1-1500)**

**Container Cap**
For 2L container, 1ea

**Thermal Exchange Coil (Standard)**
For use with a 2L liquid nitrogen container, 1 set

**Indicator**
1ea

**Stand base**
1ea

**Stand pole**
1set

**Cramp**
1ea

**Liquid Nitrogen Container Set 10L (PY-1030E-U10)**

**Liquid Nitrogen Container 10L**
JECC Torisha, Co. Ltd. CEBELL10, 1 set

**Thermal Exchange Coil 10L**
For use with an optional 10L liquid nitrogen container, 1 set

Chart Industrial Co.
Liquid nitrogen feed tube securing plate for major GCs

The shape and size of the liquid nitrogen feed tube securing plates vary depending on your GC model.

Choose the right one for your GC from the table below.

<table>
<thead>
<tr>
<th>GC</th>
<th>SS adapter packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent 7890 / 6890</td>
<td>MJ1-1201</td>
</tr>
<tr>
<td>Shimadzu GC-2010 / 17A</td>
<td>MJ1-1204</td>
</tr>
<tr>
<td>Thermo Fisher TRACE GC</td>
<td>MJ1-1207</td>
</tr>
</tbody>
</table>

Miscellaneous parts

Securing Plate
1 set

Liquid nitrogen feed tube securing plate for major GCs

<table>
<thead>
<tr>
<th>Securing Plate</th>
<th>1set</th>
</tr>
</thead>
</table>

Short Plug
For terminating temp. sensor input connector, 1 set

MS (Molecular Sieve) Trap
With cupper tube 1.2m and 15µm filter, 1 set

Liquid Nitrogen Feed Tube Assy.
1 set
Replacement part is available with the part number MJ1-1352.
Returning the defective part is required.

MJ1-1302

MJ1-5501

AH12022701 (Ver.3.06)
4. Auto-Shot Sampler (AS-1020E)

Component parts of upper section of unit

Component parts of top of Auto-Shot Sampler

Sample Cup Tray Cover, 1ea

Sample Cup Tray Cover Securing Screw, 1ea

Sample Cup Recovering Chute, 1ea

Sample Cup Recovery Container, 3ea

Contents of Sample Cup Tray Set (AS1-1510)

Sample Cup Tray, 1ea

Sample Cup Carrousel, 1ea

Sample cup tray securing screw, 1ea

Installation kits for major GCs

<table>
<thead>
<tr>
<th>GC</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent 7890 / 6890 (front injection port)</td>
<td>AS1-K680</td>
</tr>
<tr>
<td>Agilent 7890 (rear injection port)</td>
<td>AS1-K780</td>
</tr>
<tr>
<td>Agilent 6850</td>
<td>AS1-K685</td>
</tr>
<tr>
<td>Shimadzu GC-2010 / 17A</td>
<td>AS1-K201</td>
</tr>
<tr>
<td>Thermo Fisher TRACE GC</td>
<td>AS1-K901 *</td>
</tr>
</tbody>
</table>

*Modification of gas reservoir (PY-1020E-K90) is required.

Miscellaneous parts

PY1-3533
Marked by “V1” and “・”

ITF union ASN, 1set
This is used in place of PY1-3513 when Auto-Shot Sampler is used.

PY1-1531
Sample Cup Inspector, 1ea

PY1-EC80F
Eco-cup LF
φ4 x 8mm, 80µl, 100 cups

PY1-4111
Valve Control Cable, 1ea

PY1-3711
Eco Cup Holder, 1ea
Eco cup holder (10 cups)

PY1-7787
Auto-Rx Disc 100, 100 pcs (in 1 glass vial)

PY1-7788
Auto-Rx Disc 300, 100 pcs (in 3 glass vial)
5. Micro UV Irradiator (UV-1047Xe)

UV light source lamp

UV1-7105
Xenon arc lamp (contains Hg), 1ea

UV1-7106
Xenon arc lamp (contains no Hg), 1ea

UV sampler parts

UV1-3801
UV sampler, 1ea

UV1-7012
UV fiber Xe, 1ea

UV1-3802
UV sampler stand, 1ea

Miscellaneous parts

PY1-EC80UV
Eco cup UV with side openings
(80uL, 20pcs), 1set

UV1-7201
Dewar 350, 1ea
(liquid nitrogen container, 350mL)

UA1-30M-0.5F
Ultra ALLOY metal capillary column, 1ea
(dimethylpolysiloxane, 30m, 0.25mm ID, 0.5um film)

PY1-7802
Communication cable, 1ea
(RS-232C, D-sub 9pins, female)

Dewar holder, 1ea

UV tube kit (UV1-K001)

UV1-K101
Air tube set, 1set
[1/8 inch copper tube 3m, 1/8 inch union, 1/8 nut, back ferule and front ferule, 1ea]

UV1-K104
Tube extension set, 1set
[1/16 inch stainless steel tube 1.5m, union sets for carrier gas connection, 2ea]