SHIMADZU
Excellence in Science

Pyrolizer Consumable & Other Parts Guide 2024

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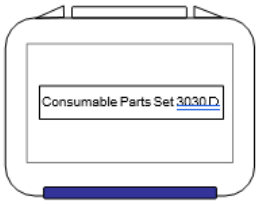
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1. Pyrolyzer (EGA/PY-3030D, PY-3030S)

1.1 Consumable parts kit: 1 year consumables

Consumable Parts Set 3030D



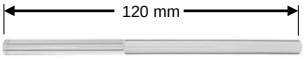
P/N: PY-K303D (220-94869-14)
for EGC/PY-3030D, 1 set

Contents of PY-K303D	Qty
1) Eco-Cup SF (Sample cup)	100 ea
2) Eco-Cup LF (Sample cup)	100 ea
3) Eco-Stand AL (Sample cup stand)	5 ea
4) Eco Pick-Up F (for sample cup recovery)	5 ea
5) Eco-Stick SF	50 ea
6) Eco-Stick DF	50 ea
7) Needle Set N	8 ea
8) Septum (for liquid sampler)	10 ea
9) Quartz Pyrolysis Tube A3030	4 ea
10) Graphite Vespel Ferrule (for interface)	8 ea

*Use the following part numbers when ordering the parts individually. The quantities of each part may differ from the Consumable Parts Set. The quantities of the parts contained in the Consumable Parts Set are shown in the list above.

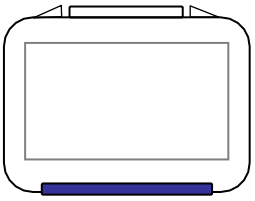
No.	P/N (part number)	Part name	Specification	Qty	Part
1	PY1-EC50F 220-90905-00	Eco-Cup SF	4 mm o.d. x H 5 mm , 50 µL, made of stainless steel	100 ea	
2	PY1-EC80F 220-90906-00	Eco-Cup LF	4 mm o.d. x H 8 mm , 80 µL , made of stainless steel	100 ea	
3	PY1-EH10AL 220-90910-01	Eco-Stand AL	Eco-Cup stand for 1 cup, for all Eco-Cups, made of aluminum	5 ea	
4	PY1-EP55F 220-90909-01	Eco Pick-Up F	For stainless steel Eco-Cup recovery, L 135 mm	5 ea	

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5	PY1-ES10F 220-90907-00	Eco-Stick SF	L 30 mm , for Single-shot	50 ea	
6	PY1-ES20F 220-90908-00	Eco-Stick DF	L 80 mm, for Double-shot	50 ea	
7	PY1-1274 220-94824-14	Needle Set N	Deactivated needle for PY-3030,PY-2020 and Rx-3050	3 ea	
8	PY1-2025 220-90913-00	Septum	For liquid sampler	20 ea	
9	PY1-3018A 220-94824-18	Quartz Pyrolysis Tube A3030	For PY-3030, L 120 mm , made of quartz	1 ea	
10	PY1-7911 220-90917-00	Graphite Vespel Ferrule	6 mm hole i.d., for interface	5 ea	

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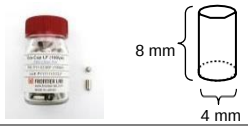
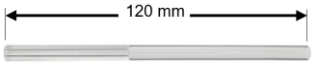
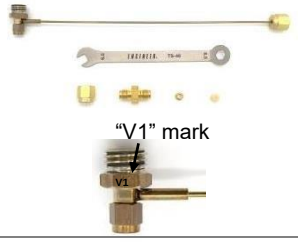
Consumable Parts Set 3030AS



P/N: PY-K313D (220-94869-15)
for EGA/PY-3030D or PY-3030S with Auto-Shot Sampler AS-1020E, 1 set

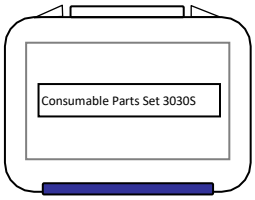
Contents of PY-K313D	Qty
1) Eco-Cup LF (Sample cup)	300 ea
2) Needle Set N	8 ea
3) Quartz Pyrolysis Tube A3030	4 ea
4) ITF Union ASN (use with Auto-Shot Sampler)	1 set
5) Eco-Cup Stand 10	2 ea
6) Graphite Vespel Ferrule (for interface)	8 ea

*Use the following part numbers when ordering the parts individually. The quantities of each parts may differ from the Consumable Parts Set. The quantities of the parts contained in the Consumable Parts Set are shown in the list above.

No.	P/N (part number)	Part name	Specification	Qty	Part
1	PY1-EC80F 220-90906-00	Eco-Cup LF	4 mm o.d. x H 8 mm , 80 µL, made of stainless steel	100 ea	
2	PY1-1274 220-94824-14	Needle Set N	Deactivated needle for PY-3030,PY-2020 and Rx-3050	3 ea	
3	PY1-3018A 220-94824-18	Quartz Pyrolysis Tube A3030	For PY-3030, L 120 mm , made of quartz	1 ea	
4	PY1-3533 220-90914-01	ITF Union ASN	Interface Union Assey for use with Auto-Shot Sampler AS-1020E	1 set	
5	PY1-3711 220-90906-01	Eco-Cup Stand 10	For Eco-Cup LF and Eco-Cup G/GQ, for 10cups	1 ea	
6	PY1-7911 220-90917-00	Graphite Vespel Ferrule	6 mm hole i.d., for interface	5 ea	

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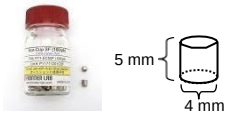
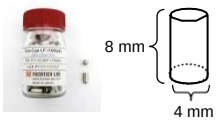
Consumable Parts Set 3030S



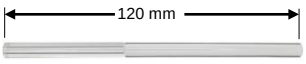
P/N: PY-K303S (220-94869-12)
for PY-3030S, 1 set

Contents of PY-K303S	Qty
1) Eco-Cup SF (Sample cup)	100 ea
2) Eco-Cup LF (Sample cup)	100 ea
3) Eco-Stand AL (Sample cup stand)	5 ea
4) Eco Pick-Up F (for sample cup recovery)	5 ea
5) Eco-Stick SF	100 ea
6) Needle Set N	8 ea
7) Septum (for liquid sampler)	10 ea
8) Quartz Pyrolysis Tube A3030	4 ea
9) Graphite Vespel Ferrule (for interface)	8 ea

∗ Use the following part numbers when ordering the parts individually. The quantities of each parts may differ from the Consumable Parts Set. The quantities of the parts contained in the Consumable Parts Set are shown in the list above.

No.	P/N (part number)	Part name	Specification	Qty	Part
1	PY1-EC50F 220-90905-00	Eco-Cup SF	4 mm o.d. x H 5 mm , 50 µL, made of stainless steel	100 ea	
2	PY1-EC80F 220-90906-00	Eco-Cup LF	4 mm o.d. x H 8 mm , 80 µL, made of stainless steel	100 ea	
3	PY1-EH10AL 220-90910-01	Eco-Stand AL	Eco-Cup stand for 1 cup, for all Eco-Cups, made of aluminum	5 ea	
4	PY1-EP55F 220-90909-01	Eco Pick-Up F	For stainless steel Eco-Cup recovery, L 135 mm	5 ea	
5	PY1-ES10F 220-90907-00	Eco-Stick SF	L 30 mm , for Single-shot	50 ea	
6	PY1-1274 220-94824-14	Needle Set N	Deactivated needle for PY-3030,PY-2020 and Rx-3050	3 ea	

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7	PY1-2025 220-90913-00	Septum	For liquid sampler	20 ea	
8	PY1-3018A 220-94824-18	Quartz Pyrolysis Tube A3030	For PY-3030, L 120 mm , made of quartz	1 ea	
9	PY1-7911 220-90917-00	Graphite Vespel Ferrule	6 mm hole i.d., for interface	5 ea	

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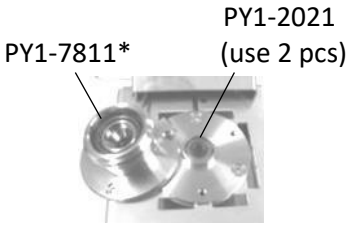
1.2 Pyrolizer Furnace and Interface parts

Note: Some parts are only compatible with the PY-3030 or PY-2020 series. The dedicated parts for PY-2020 series were discontinued on Dec. 31, 2020.

Common Parts

P/N (part number)	Part name	Specification	Qty	Part
PY1-7811 220-94869-65	O-ring (P-12)	O-ring for sampler base of PY-2020iD/iS and PY-3030D/S, black	10 ea	

PY-3030D/S Parts



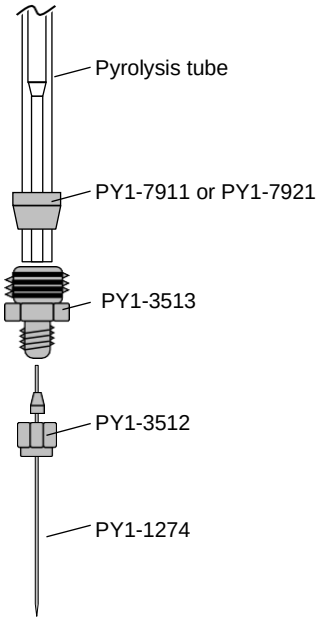
PY-3030D/S pyrolysis tube sealing

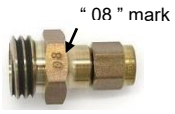
P/N (part number)	Part name	Specification	Qty	Part
PY1-2021* 220-94824-32	O-ring (P-6R) *Replacement of PY1-2017 (O-ring P-6W).	Pyrolysis tube sealing Red silicon rubber	10 ea	

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Common parts for PY-3030D/S

Connection between pyrolysis tube and needle



P/N (part number)	Part name	Specification	Qty	Part
PY1-3018A 220-94824-18	Quartz Pyrolysis Tube A3030	For PY-3030, L 120 mm , made of quartz	1 ea	
PY1-1274 220-94824-14	ITF Needle Set N	Deactivated needle for PY-3030,PY-2020 and Rx-3050	3 ea	
PY1-3512 220-94869-45	Needle Nut	Stainless steel 1/16”	3 ea	
PY1-3513 220-90915-00	Interface Union N	With nut	1 ea	

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PY1-3515 220-90914-00	ITF Union N Set	Contains 1 interface union N with a nut and 2 interface needles N	1 set	
PY1-3533 220-90914-01	ITF Union ASN	Interface Union Assey for use with Auto-Shot Sampler AS-1020E	1 ea	
PY1-7911 220-90917-00	Graphite Vespel Ferrule	6 mm hole i.d., for interface	5 ea	
PY1-7921 220-90918-00	Graphite Ferrule	6 mm hole i.d.,	5 ea	

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.

P/N (part number)	Part name	Specification	Qty	Part
PY1-3551 220-94869-77	Heat Sink Adapter Kit 3030	Shimadzu GC-2030/2010/17A	1 set	
PY1-3544 220-94869-78	Septum Nut Set 3030	Shimadzu GC-2030/2010/17A	1 set	

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Sampler Parts

P/N (part number)	Part name	Specification	Qty	Part
PY1-1020 220-94824-19	Double-Shot Sampler	Double-Shot Sampler for PY-2010, 2020, 3030 pyrolyzer	1 ea	
PY1-1040 220-94824-33	Single-Shot Sampler	For all Single-Shot pyrolyzer	1 ea	
PY1-2022 220-94824-34	Double-Shot Sampler Stand		1 ea	
PY1-2025 220-90913-00	Septum	For liquid sampler	20 ea	
PY1-2112 220-90920-00	O-ring (P-3)	For the purge valve of Double-Shot sampler	20 ea	
PY1-7412 220-90912-00	Needle Guide φ 0.8 A	For liquid sampler 0.8 mm i.d., H 8 mm	1 ea	

ITF Cover Parts

P/N (part number)	Part name	Specification	Qty	Part
PY1-3563 220-94824-35	ITF Cover 3030A	Interface cover for EGA/PY-3030D, PY-3030S, Rx-3050TR, Rx-3050SR, includes set screws (3ea)	1 set	

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1.3 GC related parts

GC Inlet Parts

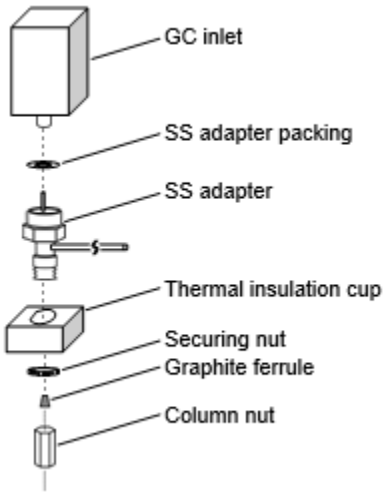
P/N (part number)	Part name	Specification	Qty	Part
PY1-7304 220-94792-01	Septum	Surface treated, for Shimadzu GC	5 ea	

Tubing

P/N (part number)	Part name	Specification	Qty	Part
PY1-K002 220-90919-01	Carrier Gas Union Set 1/8	Swagelok 1/8” union (Brass, 1ea), Swagelok 1/8” nut (Brass, 2ea), Swagelok 1/8” back ferrule (Brass, 2ea) and Inlet/outlet septum (5 ea)	1 set	
PY1-K003 220-90919-02	Cap Set	Swagelok 1/8” nut (Brass, 1ea), Swagelok 1/8” cap (Brass, 1ea), Swagelok 1/8 back ferrule (Brass, 1ea) and Inlet/outlet septum (1ea)	1 set	
PY1-2028 220-90919-00	Inlet/Outlet Septum	For connecting tubes, with hole	20 ea	
PY1-2216 220-90911-01	Absorption Trap Tube	For trap tube only. Packed with activated charcoal	3 ea	
PY1-2227 220-94786-00	Absorption Trap Set 17SV	For Shimadzu GC-2010/2030/17A split vent	1 set	

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Connection parts for GC inlet



Connection parts underneath GC inlet

GC	SS Adapter Packing	SS Adapter	Thermal Insulation Cup	Securing nut	Graphite ferrule	Column nut
Shimadzu GC-2030/2010/17A	SS1-2011	SS1-2001	SS1-2012	Not necessary [1)]	SS1-7215	SS1-7201 [2)]

SS Adapter Packing

P/N (part number)	Part name	Specification	Qty	Part
SS1-2011 220-94869-66	SS Adapter Packing for Shimadzu	For SS Adapter (SS1-2001)	10 ea	

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SS Adapter

P/N (part number)	Part name	Specification	Qty	Part
SS1-2001 220-94829-00	SS Adapter for Shimadzu	For Shimadzu GC-17A/2010/2030, includes purge line capillary tube (1.75 m , 0.25 mm i.d.)	1 set	

Thermal Insulation Cup

P/N (part number)	Part name	Specification	Qty	Part
221-44671-91	Thermal Insulation Cup for Shimadzu	For SS adapter (SS1-2001), includes 2 securing screws	1 ea	

[1] Standard screws for GC are used

Graphite ferrule

P/N (part number)	Part name	Specification	Qty	Part
220-90418-15	Graphite Vespel Ferrule 05	0.5 mm hole i.d., for Ultra ALLOY Capillary column and EGA tube	10 ea	
227-35006-01	Graphite Ferrule 0.5	Graphite ferrule for Shimadzu GC	10 ea	

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Column nut

P/N (part number)	Part name	Specification	Qty	Part
MS604234 220-94824-41	Column Nut		1 ea	
670-11009-00	Column Nut	For Shimadzu GC	5 ea	

2. Capillary column

P/N (part number)	Part name	Specification	Qty	Part
UA5(MS/HT)-15M-0.25F 220-94869-16	Ultra ALLOY® Capillary column, UA5-15M-0.25F	15 m, 0.25 mm i.d., 0.1 um	1 ea	
UA5(MS/HT)-30M-0.25F 220-94869-17	Ultra ALLOY® Capillary column, UA5-30M-0.25F	30 m, 0.25 mm i.d., 0.25 um	1 ea	
UA5(MS/HT) -30M-0.5F 220-94869-18	Ultra ALLOY® Capillary column, UA5-30M-0.5F	30 m, 0.25 mm i.d., 0.5 um	1 ea	
UA1 (MS/HT) -30M-0.1F 220-94869-19	Ultra ALLOY® Capillary column, UA1-30M-0.1F	30 m, 0.25 mm i.d., 0.1 um	1 ea	

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UA1 (MS/HT) -30M-0.25F 220-94869-20	Ultra ALLOY® Capillary column, UA1-30M-0.25F	30 m, 0.25 mm i.d., 0.25 um	1 ea	
UA1 (MS/HT) -30M-0.5F 220-94869-21	Ultra ALLOY® Capillary column, UA1-30M-0.5F	30 m, 0.25 mm i.d., 0.5 um	1 ea	

3. Vent-free GC/MS Adapter

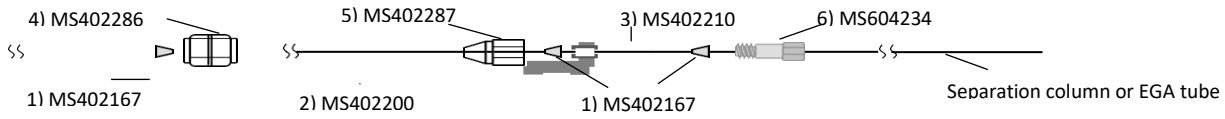
Common parts

P/N (part number)	Part name	Specification	Qty	Part
UAP-7001 220-94824-36	File for Ultra ALLOY Capillary Tube	File for cutting capillary tubes	1 ea	
220-94702-00	Capillary Column Cutting Wafer	Ceramic wafer for cutting capillary columns	5 ea	

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Connecting VF tube and Separation column (or EGA tube)

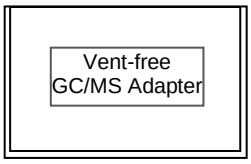
For Shimadzu



No.	P/N (part number)	Part name	Specification	Qty	Part
1	MS402167 220-94824-40	VF Metal Ferrule D	VF Metal Ferrule D for column connection	20 ea	
2	MS402200 220-94824-43	VF Tube N-50	Includes Vent-free tube N (0.15 mm id / 50 cm, 1 ea), VF spacer, VF metal ferrule D (2 ea), VF nut B and VF nut C	1 set	
3	MS402210 220-94824-37	VF Holder N	Use with VF Tube N, consists of holder and fixing bracket	1 set	
4	MS402286 220-94824-49	VF Nut B	For the interface between MS and VF tube	3 ea	
5	MS402287 220-94824-48	VF Nut C	For the interface between VF Holder N and VF tube	3 ea	
6	MS604234 220-94824-41	Column Nut	0.5 mm hole i.d.	1 ea	

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Vent-free GC/MS Adapter N-50



P/N: MS402280/ 220-94869-59

1 set

Contents of MS402280	Qty
1) Plug Nut B	1 set
2) VF Metal Ferrule D	10 ea
3) VF Tube N-50	2 ea
4) VF Holder N	1 ea
5) VF Nut B	1 ea
6) VF Nut C	1 ea
7) Column Nut	2 ea
8) Double Head Wrench (6/8 mm)	2 ea
9) Operation Manual	1 ea

* Use the following part numbers when ordering the parts individually. The quantities of each parts may differ from the Vent-free GC/MS Adapter N-50. The quantities of the parts contained in the Vent-free GC/MS Adapter N-50 are shown in the list above.

No.	P/N (part number)	Part name	Specification	Qty	Part
1	MS402168 220-94824-42	Plug Nut B	Use to plug the VF tube	1 set	
2	MS402167 220-94824-40	VF Metal Ferrule D	VF Metal Ferrule D for column connection	20 ea	
3	MS402200 220-94824-43	VF Tube N-50	Includes Vent-free tube N (0.15 mm id / 50 cm, 1 ea), VF spacer, VF metal ferrule D (2 ea), VF nut B and VF nut C	1 set	
4	MS402210 220-94824-37	VF Holder N	Use with VF Tube N, consists of holder and fixing bracket	1 set	
5	MS402286 220-94824-49	VF Nut B	For the interface between MS and VF tube	3 ea	

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6	MS402287 220-94824-48	VF Nut C	For the interface between VF Holder N and VF tube	3 ea	
7	MS604234 220-94824-41	Column Nut		1 ea	
8	Rx1-3532 No Shimadzu p/n	Double Head Wrench (6/8 mm)	6-8 mm	1 ea	
9	-	Operation Manual	※Not for sale. This can be downloaded from Frontier Lab's website for free.	-	

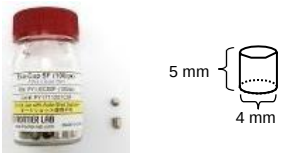
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4. Sample Cups

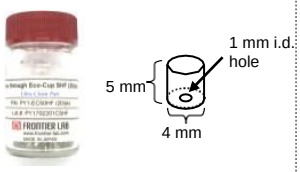
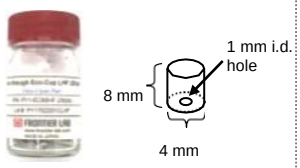
Common parts

P/N (part number)	Part name	Specification	Qty	Part
PY1-EH10AL 220-90910-01	Eco-Stand AL	Eco-Cup stand for 1 cup, for all Eco-Cups, made of aluminum	5 ea	
PY1-3711 220-90906-01	Eco-Cup Stand 10	For Eco-Cup LF and Eco-Cup G/GQ, for 10cups	1 ea	

Eco-Cup (Stainless Steel)

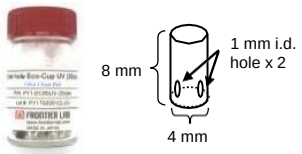
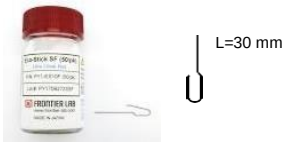
P/N (part number)	Part name	Specification	Qty	Part	Part
PY1-EC50F 220-90905-00	Eco-Cup SF	4 mm o.d. x H 5 mm , 50 µL, made of deactivated stainless steel	100 ea		2020iD/iS 3030D/S
PY1-EC80F 220-90906-00	Eco-Cup LF	4 mm o.d. x H 8 mm , 80 µL, made of deactivated stainless steel	100 ea		2020iD/iS 3030D/S
PY1-EC80F-V4 220-90906-11	Eco-Cup LF-V4	4 mm o.d. x H 8 mm , 80 µL, made of deactivated stainless steel	400 ea (100 x 4 bottles)		2020iD/iS 3030D/S

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PY1-EC50HF 220-90906-07	Flow Through Eco-Cup SHF	Flow through type, 1 mm i.d. hole at the bottom, 4 mm o.d. x H 5 mm , 50 µL, deactivated stainless steel	20 ea		2020iD/iS 3030D/S
PY1-EC80HF 220-90906-06	Flow Through Eco-Cup LHF	Flow though type 1 mm i.d. hole at the bottom, 4 mm o.d. x H 8 mm , 80 µL, deactivated stainless steel	20 ea		2020iD/iS 3030D/S 7070S
PY1-EC80N 220-90906-02	RoHS-Cup LN	Recommended for RoHS phthalates analysis, Non-deactivated stainless steel, max. use temp. 700ºC, volume 80 µL	100 ea		2020iD/iS 3030D/S
PY1-EC80N-V5 220-90906-13	RoHS-Cup LN-V5	Recommended for RoHS phthalates analysis, Non-deactivated stainless steel, max. use temp. 700ºC, volume 80 µL, *5 bottles	500 ea (100 x 5 bottles)		2020iD/iS 3030D/S
PY1-EC80N-V10 220-90906-13	RoHS-Cup LN-V10	Recommended for RoHS phthalates analysis, Non-deactivated stainless steel, max. use temp. 700ºC, volume 80 µL, *10 bottles	1000 ea (100 x 10 bottles)		2020iD/iS 3030D/S

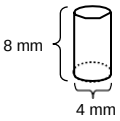
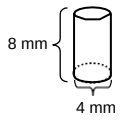
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Eco-Cup (Stainless Steel)

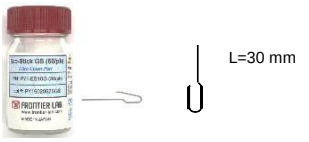
P/N (part number)	Part name	Specification	Qty	Part	Part
PY1-EC80UV 220-90906-08	Side Hole Eco-Cup UV	Flow through type, 1 mm i.d. hole at both sides, 4 mm o.d. x H 8 mm , 80 µL, deactivated stainless steel	20 ea		2020iD/iS 3030D/S
PY1-EP55F 220-90909-01	Eco-Pickup F	For stainless steel Eco-Cup recovery, L 135 mm	5 ea		2020iD/iS 3030D/S
PY1-ES10F 220-90907-00	Eco-Stick SF	For Single-shot Eco-Cups, L 30 mm , deactivated stainless steel	50 ea		2020iD/iS 3030D/S
PY1-ES20F 220-90908-00	Eco-Stick DF	For Double-shot Eco-Cups, L 80 mm , deactivated stainless steel	50 ea		2020iD 3030D

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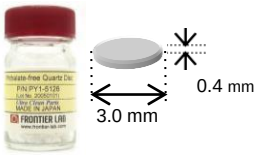
Eco-Cup G series (Glass)

P/N (part number)	Part name	Specification	Qty	Part	part
PY1-EC50G 220-90906-05	Eco-Cup G	Non quartz coated, maximum use temp. 450ºC 4 mm o.d. x H 8 mm , thickness 5 mm , 50 µL	100 ea	 	2020iD/iS 3030D/S
PY1-EC50GQ 220-90905-01	Eco-Cup GQ	Glass coated with bonded quartz layer, maximum use temp. 600ºC, 4 mm o.d. x H 8 mm , thickness 5 mm , 50 µL	30 ea	 	2020iD/iS 3030D/S
PY1-EC50GP-01 220-90906-09	Polymer Coated Cup G	PVC coated glass cup, maximum use temp. 450ºC, 50µL	10ea	 	2020iD/iS 3030D/S
PY1-EC50GP-05 220-90906-10	Polymer Coated Cup G 5 sets	PVC coated glass cup, maximum use temp. 450ºC, 50µL,	50ea	 	2020iD/iS 3030D/S
PY1-EP55GF 220-90907-03	Eco-Pickup GF	For glass Eco-Cup recovery, L 135 mm	5 ea		2020iD/iS 3030D/S

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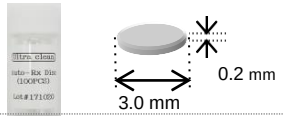
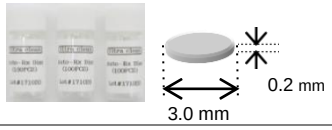
PY1-ES10G 220-90907-01	Eco-Stick GS	For glass Eco-Cups, L 30 mm, for Single-Shot	50 ea		2020iD/iS 3030D/S
PY1-ES20G 220-90908-01	Eco-Stick GD	For glass Eco-Cups, L 80 mm, for Double-Shot	50 ea		2020iD 3030D

Eco-Cup (Phthalate free)

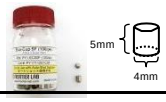
P/N (part number)	Part name	Specification	Qty	Part
PY1-5121 220-94792-03	Phthalate-free Quartz Wool	Phthalate-free quartz wool 1.0g (200 mg per a vial, 5 vials set), with test certificate (less than 1 ppm: DIBP, DBP, BBP, DEHP, DNOP / less than 5 ppm: DINP, DIDP)	1 set	
PY1-5126 220-94792-04	Phthalate-free Quartz Disc	Phthalate-free Quartz Disc 125 mg (1 bottle), with test certificate (less than 1 ppm: DIBP, DBP, BBP, DEHP, DNOP / less than 5 ppm: DINP, DIDP)	1 ea	

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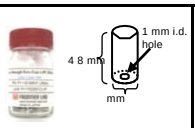
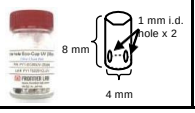
Miscellaneous

P/N (part number)	Part name	Specification	Qty	Part
PY1-5111 220-94792-05	Fine Quartz Wool 2g	2 g	1 ea	
PY1-7787 220-94792-06	Auto-Rx Disc 100	Allow to use AS-1020E for reactive pyrolysis	100 ea	
PY1-7788 220-94792-07	Auto-Rx Disc 300	Allow to use AS-1020E for reactive pyrolysis	300 ea (100 x 3 vials)	

Selection of the sample cups

Product name	Product number (Quantity)	Material	Volume	Max. temp.	Compatibility with AS-1020E	Appearance	Description
Eco-Cup LF 220-90906-00	PY1-EC80F (100 ea)	Stainless steel (Deactivated*1)	80 µL	1,050ºC	Yes		All application*2 Optimum pyrolysis temperature is 30ºC lower than Eco-cup SF for most polymeric materials due to large surface area. This is useful for samples with relatively large volumes. 100 ea x 4 bottles/set (P/N: PY1-EC80F-V4) is also available.
Eco-Cup SF 220-90906-03	PY1-EC50F (100 ea)	Stainless steel (Deactivated*1)	50 µL	1,050ºC	No		All application*2 This cup provides slightly better pyrogram reproducibility in flash pyrolysis-GC mode than Eco-cup LF.
RoHS-Cup LN 220-90906-04	PY1-EC80N (100 ea)	Stainless steel (Non-Deactivated)	80 µL	700ºC	Yes		For phthalates analysis only. Single use, disposable sample cup. 100 ea x 5 bottles/set (P/N: PY1-EC80N-V5), 100 ea x 10 bottles/set (P/N: PY1-EC80N-V10) are also available.
Eco-Cup G 220-90906-05	PY1-EC50G (100 ea)	Pyrex glass (Glass surface)	50 µL	450ºC	Yes*3		Disposable cup for Frontier-lab's pyrolyzer. The cups are made of clear glass, the sample position, sample color change, residues, and contamination can easily be observed. For thermal desorption and reactive pyrolysis. Maximum temperature is 450ºC.
Eco-Cup GQ 220-90905-01	PY1-EC50GQ (30 ea)	Pyrex glass (Quartz surface)	50 µL	600ºC	Yes*3		Disposable cups for Frontier-lab's pyloryzer. Glass coated with a bonded quartz layer. Maximum temperature is 600ºC. For thermal desorption, reactive pyrolysis and pyrolysis

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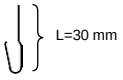
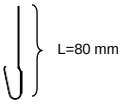
Eco-Cup LHF (Flow Through) 220-90906-06	PY1-EC80HF (20 ea)	Stainless steel (Deactivated*1)	80 µL	1,050ºC	No		This cup provides better peak shape resolution of volatile compounds (C3-10) than regular cups. And it prevents secondary reactions under a low carrier gas flow, e,g. 10 mL/min.
Eco-Cup SHF (Flow Through) 220-90906-07	PY1-EC50HF (20 ea)	Stainless steel (Deactivated*1)	50 µL	1,050ºC	No		This cup provides better peak shape resolution of volatile compounds (C3-10) than regular cups. And it prevents secondary reactions under a low carrier gas flow, e,g. 10 mL/min.
Side Hole Eco-Cup UV 220-90906-08	PY1-EC80UV (20 ea)	Stainless steel (Deactivated*1)	80 µL	1,050ºC	Yes		Used for analysis with Micro-UV Irradiator (UV/Py-GC/MS).

*1 The entire surface has been deactivated using the same proprietary technology used for Ultra Alloy ® columns. The thickness is 0.1 mm.
*2 Except analysis with Micro-UV Irradiator (UV/Py-GC/MS). Please use the Side Hole Eco-Cup UV (P/N: PY1-EC80UV) when use UV-1047Xe.
*3 Use the sample cup recovery chute equipped with Teflon sheet.

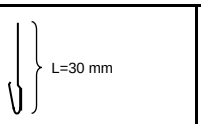
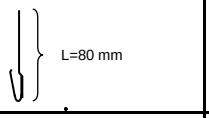
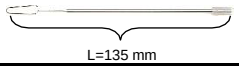
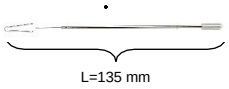
Selecting between RoHS Cup LN and Eco-Cup LF

Sample cup	Product number	Analytical target		Description	Appearance
		Phthalate	Polymer/additive		
Eco-Cup LF 220-90906-00	PY1-EC80F	○	○	・Deactivated ・Can be reused ・Disposable use recommended for analysis of brominated flame retardants ・100 ea x 4 bottles/set (P/N: PY1-EC80F-V4) is also available.	 White label
RoHS-Cup LN 220-90906-04	PY1-EC80N	○	×	・No deactivation ・Disposable use ・Recommended for phthalates analysis ・100 ea x 5 bottles/set (P/N: PY1-EC80N-V5), 100 ea x 10 bottles/set (P/N: PY1-EC80N-V10) are also available.	 Orange label

Selection of the sample sticks

Product name	Product number (Quantity)	Material	Max. temp.	Appearance	Description
Eco-Stick SF 220-90907-00	PY1-ES10F (50 ea)	Stainless steel (Deactivated*1)	1,050ºC	 L=30 mm	For stainless steel Eco-Cups*1. Used for manual Single-Shot analysis, EGA analysis or Heart-Cut EGA analysis.
Eco-Stick DF 220-90908-00	PY1-ES20F (50 ea)	Stainless steel (Deactivated*1)	1,050ºC	 L=80 mm	For stainless steel Eco-Cups*1. Used for manual Double-Shot analysis.

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Eco-Stick GS 220-90907-01	PY1-ES10G (50 ea)	Stainless steel (Deactivated*1)	600ºC		For glass Eco-Cups. Used for Single-Shot analysis, EGA analysis or Heart-Cut EGA analysis
Eco-Stick GD 220-90908-01	PY1-ES20G (50 ea)	Stainless steel (Deactivated*1)	600ºC		For glass Eco-Cups. Used for Double-Shot analysis.
Eco-Pickup F 220-90907-02	PY1-EP55F (5 ea)	Stainless steel	1,050ºC		For stainless steel Eco-Cup recovery
Eco-Pickup GF 220-90907-03	PY1-EP55GF (5 ea)	Stainless steel	600ºC		For glass Eco-Cup recovery

*1 The entire surface has been deactivated using the same proprietary technology used for Ultra Alloy ® columns.

P/N (part number)	Part name	specification	Qty	Part
PY1-4908 220-94824-45	Polystyrene sample	For Pyrolyzer Performance Evaluation, Polystyrene 2.5 mg film, Me-stearate 5 w% in 2mL glass bottle	1 ea	

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5. Sampling Tools

Sampling Tool Kit 01



P/N: PY1-K101/220-90907-04
1 set

Contents of PY1-K101	Qty
1) Cutting Mat L	2 ea
2) Micro-puncher 125D	5 ea
3) Tweezers	3 ea
4) Cutter Knife	2 ea
5) Scissors	1 ea
6) Precision Scissors	1 ea

* These will only be sold as part of the kit, not as individual parts. The quantities of each part may differ from the Sampling Tool Kit 01. The quantities of the parts contained in the Sampling Tool Kit 01 are shown in the list above.

No.	P/N (part number)	Part name	Specification	Qty	Part
1	FCM-6577 *1	Cutting Mat L	L 150 mm x W 220 mm Light green	5 ea	
2	FMP-1.25D *1	Micro-puncher 125D	Micro-puncher 1.25mm i.d., White	10 ea	
3	PY1-7141	Tweezers	L 125 mm	1 ea	
4	PY1-7151	Cutter Knife	Incl. spare blades (25 pcs)	1 ea	
5	PY1-7161	Scissors	L 176 mm , Blades 65 mm	1 ea	
6	PY1-7162	Precision Scissors	L 90 mm , Blades 16 mm	1 ea	

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Sampling Tool Kit 02



P/N: PY1-K102/220-90907-05

1 set

Contents of PY1-K102	Qty
1) Cutting Mat L	1 ea
2) Micro-puncher 050D	3 ea
3) Micro-puncher 075D	3 ea
4) Micro-puncher 125D	3 ea
5) Micro Sample Collector	1 ea
6) Eco-Cup Stand 10	1 ea
7) Tweezers	2 ea
8) Blunt Tip Tweezers	1 ea
9) Sampling Needle	3 ea
10) Double Head Spatula	1 ea
11) Cutter Knife	1 ea
12) Scissors	1 ea
13) Precision Scissors	1 ea
14) Eco-Stand AL	2 ea
15) File for Ultra ALLOY Capillary Tube	1 ea

∗ These will only be sold as part of the kit, not as individual parts. The quantities of each part may differ from the Sampling Tool Kit 02. The quantities of the parts contained in the Sampling Tool Kit 02 are shown in the list above.

No.	P/N (part number)	Part name	Specification	Qty	Part
1	FCM-6577 *1	Cutting Mat L	L 150 mm x W 220 mm Light green	5 ea	
2	FMP-0.50D *1	Micro-puncher 050D	Micro-puncher 0.5mm i.d., White	10 ea	
3	FMP-0.75D *1	Micro-puncher 075D	Micro-puncher 0.75mm i.d., White	10 ea	
4	FMP-1.25D *1	Micro-puncher 125D	Micro-puncher 1.25mm i.d., White	10 ea	

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5	PY1-1070 *2	Micro Sample Collector Kit	Incl. Micro Coil S (20 ea)	5 ea	
6	PY1-3711 220-90906-01	Eco-Cup Stand 10	For Eco-Cup LF and Eco-Cup G/GQ, for 10cups	1 ea	
7	PY1-7141	Tweezers	L 125 mm	1 ea	
8	PY1-7142	Blunt Tip Tweezers	L 125 mm	1 ea	
9	PY1-7145	Sampling Needle	For viscous liquids	5 ea	
10	PY1-7147	Double Head Spatula	Gathers powder samples	1 ea	
11	PY1-7151	Cutter Knife	Incl. spare blades (25 pcs)	1 ea	
12	PY1-7161	Scissors	L 176 mm , Blades 65 mm	1 ea	
13	PY1-7162	Precision Scissors	L 90 mm , Blades 16 mm	3 ea	
14	PY1-EH10AL 220-90910-01	Eco-Stand AL	Eco-Cup stand for 1 cup, for all Eco-Cups, made of aluminum	5 ea	
15	UAP-7001	File for Ultra ALLOY Capillary Tube	File for cutting capillary tubes	1 ea	

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