





METTLER TOLEDO

Partnered with
www.mt-agi.com
AG!



800 In addition to our standard products, we also manufacture custom-made items and glass parts for use with analyzing equipment. In addition to simply producing glassware, we also design and develop new equipment.

A Strategic Partnership

To further serve our customers better, we have decided to establish a strategic partnership with Asahi Glassplant Inc., AG!, to provide our customers the possibility to have their system glassware sourced directly from a world-class glass company. This will provide you with a smoothness integration and allows us to deliver faster and better services such as responding to special system requests. We are looking forward to further provide you with excellent services.

METTLER TOLEDO



METTLER TOLEDO Group

Automated Reactors and In Situ Analysis Local contact: www.mt.com/contacts

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Asahi Glassplant Inc.

www.agi.co.jp

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50 – 51 50	AGI Lineup Reaction Unit Filter Reactor Short Path Evaporator Rotary Evaporator Nutsche Filter Thin Film Evaporator

AGI Reaction Unit controlled by RX-10

Chemical Synthesis, Crystallization



****PTFE Cover is Standard**

Bench-top Reactor

Chemical Synthesis Unit Crystallization Unit

Vessel Capacity: 3000, 5000 mL

Vessel Type :Double Wall (Thermal Jacket)

Triple Wall (Thermal Jacket and Vacuum Jacket)

Operating Pressure: Full Vacuum to atm

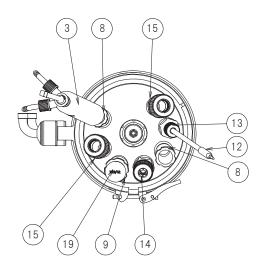
Operating Jacket Pressure : Up to +0.5 bar G (+0.05 MPa)

Operating Temperature : -90 °C to +230 °C ΔT : 110 °C (Double Wall), 60°C (Triple Wall)

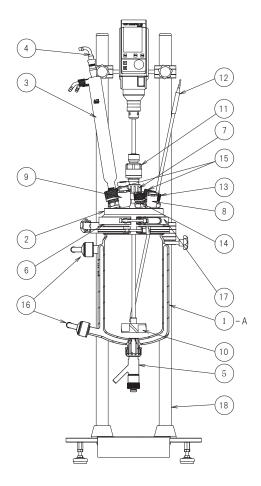
This system does not include overhead stirrer, circulator and chiller.

Please contact us about customized systems.

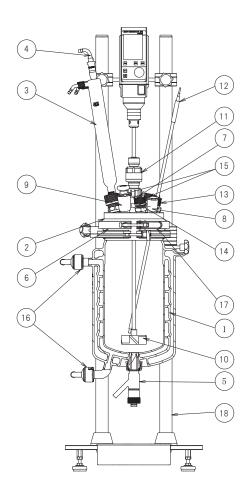
Chemical Synthesis Unit



Chemical Synthesis Unit: Top



Chemical Synthesis Unit: Front Double Wall Reactor



Chemical Synthesis Unit: Front Triple Wall Reactor

Chemical Synthesis unit Triple Wall DN150 Chemical Synthesis unit Double Wall DN150

Order Number	Product Description	Quantity
5790-3000	3000 mL Chemical Synthesis unit	1
5790-5000	5000 mL Chemical Synthesis unit	1

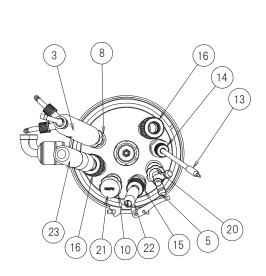
Order Number	Product Description	Quantity
5791-3000	3000 mL Chemical Synthesis unit	1
5791-5000	5000 mL Chemical Synthesis unit	1

Chemical Synthesis unit consisting of

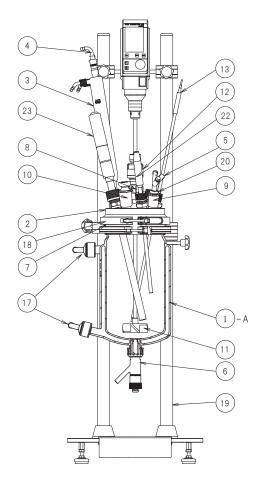
Number	Order Number	Product Description	3000 mL	5000 mL	Quantity	Page
	5742M00005	3000mL Glass reactor Triple Wall with Ring baffle DN150	•		1	18
1)	5742M00006	5000mL Glass reactor Triple Wall with Ring baffle DN150		•	1	18
	5712M00005	3000mL Glass reactor Double Wall with Ring baffle DN150	•		1	18
① - A	5712M00006	5000mL Glass reactor Double Wall with Ring baffle DN150		•	1	18
2	5798P00001	PTFE cover for reactor, 8ports	•	•	1	16
3	3442-300W-4L1L	Reflux Condenser, ST24/40	•	•	1	23
4	2402-1L	Exhaust Pipe,bended, ST15/25	•	•	1	23
(5)	3960-01T	Flush Valve, SQG-29/42	•	•	1	22
6	9260R00006	O Ring for DN150	•	•	1	19
7	5702P00003	Compression Screw Fittings, SQG29/42	•	•	1	25
8	MT30215733	Taper joint adapter 3/4" NPT ST24/40	•	•	2	21
9	MT30245674	Taper joint adapter 3/4" NPT ST29/42	•	•	1	21
10	3365P-10/70/650	Stirrer Shaft, Pitched Paddle type	•	•	1	28
11)	3341-5L-10	Universal Stirrer Guide, SQG-29/42	•	•	1	25
12	3381-600	Temperature Sensor	•	•	1	27
13)	MT30245680	Compression Fitting 3/4" NPT, Ø 8	•	•	1	21
14)	MT30245700	Compression Fitting 3/4" NPT, 3/8"	•	•	1	21
15)	MT5702P00008	Compression Fitting 3/4" NPT, Ø 19	•	•	2	21
16	9199L00001	Metal Adaptor	•	•	2	27
17	3966-150	Clamp	•	•	1	19
18)	5750000001	Stand: DN 150	•	•	1	26
19	2242-29/42	Flat Head Glass stopper ST29/42	•	•	1	20

^{*} Overhead stirrer motor is not included

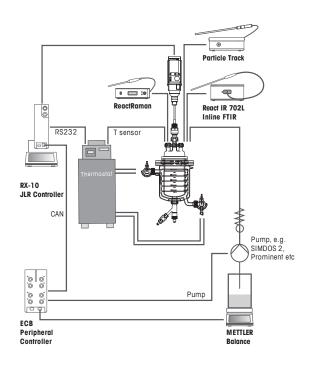
Chemical Synthesis Unit with Accessories

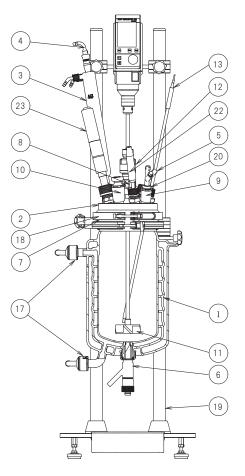


Chemical Synthesis Unit: Top



Chemical Synthesis Unit: Front Double Wall Reactor





Chemical Synthesis Unit: Front Triple Wall Reactor

Chemical Synthesis unit Triple Wall DN150 Chemical Synthesis unit Double Wall DN150

Order Number	Product Description	Quantity
5792-3000	3000 mL	1
	Chemical Synthesis unit for Accessories	
5792-5000	5000 mL	1
	Chemical Synthesis unit for Accessories	

Order Number	Product Description	Quantity
5793-3000	3000 mL Chemical Synthesis unit for Accessories	1
5793-5000	5000 mL Chemical Synthesis unit for Accessories	1

Chemical Synthesis unit for Accessories consisting of

Number	Order Number	Product Description	3000 mL	5000 mL	Quantity	Page
	5742M00005	3000mL Glass reactor Triple Wall with Ring baffle DN150	•		1	18
1)	5742M00006	5000mL Glass reactor Triple Wall with Ring baffle DN150		•	1	18
	5712M00005	3000mL Glass reactor Double Wall with Ring baffle DN150	•		1	18
① – A	5712M00006	5000mL Glass reactor Double Wall with Ring baffle DN150		•	1	18
2	5798P00001	PTFE cover for reactor, 8ports	•	•	1	16
3	3442-300W-4L1L	Reflux Condenser, ST24/40	•	•	1	23
4	2402-1L	Exhaust Pipe, bended, ST15/25	•	•	1	23
5	MT51161834	3-Way Dosing Adapter Set	•	•	1	24
6	3960-01T	Flush Valve, SQG-29/42	•	•	1	22
7	9260R00006	O Ring for DN150	•	•	1	19
8	5702P00003	Compression Screw Fittings, SQG29/42	•	•	1	25
9	MT30215733	Taper joint adapter 3/4" NPT ST24/40	•	•	2	21
10	MT30245674	Taper joint adapter 3/4" NPT ST29/42	•	•	1	21
11)	3365P-10/70/650	Stirrer Shaft, Pitched Paddle type	•	•	1	28
12	3341-5L-10	Universal Stirrer Guide, SQG-29/42	•	•	1	25
13)	3381-600	Temperature Sensor	•	•	1	27
14)	MT30245680	Compression Fitting 3/4" NPT, Ø 8	•	•	1	21
15)	MT30245700	Compression Fitting 3/4" NPT, 3/8"	•	•	1	21
16	MT5702P00008	Compression Fitting 3/4" NPT, Ø 19	•	•	2	21
17)	9199L00001	Metal Adaptor	•	•	2	27
18	3966-150	Clamp	•	•	1	19
19	5750000001	Stand: DN150	•	•	1	26
20	2304-14/234L	Reducing Adapter ST-14/23 to ST24/40	•	•	1	24
21)	2242-29/42	Flat Head Glass stopper ST29/42	•	•	1	20

^{*} Overhead stirrer motor is not included

RX-10

Order Number	Product Description	Quantity	Page
30208790	RX-10 units	1	35

Balance

Order Number	Product Description	Quantity	Page
30243431	MI 6001T/A00	1	38

ECB

Order Number	Product Description	Quantity	Page
30212440	ECB set	1	39

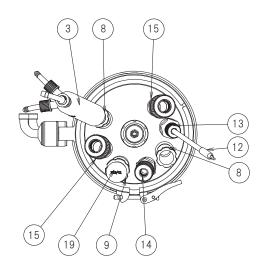
KNF SIMDOS

Order Number	Product Description	Quantity	Page
30335504	KNF SIMDOS 02 FT.18 RC-X	1	41
Order Number	Product Description	Quantity	Page

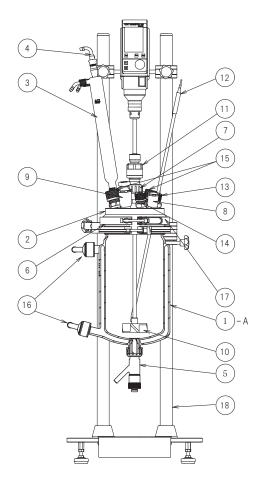
Connecting Sensors and Analytics

Number	Order Number	Product Description	Quantity	Page
22	30456495	ReactIR 702L	1	37
23)	14420890	ParticleTrack G400	1	37
24)	30248120	InLab Reach 425 Needed items: Compression Fitting ϕ 12 mm MT30245681	1	47
25)	304725451	ReactRaman 785 Needed items: Compression Fitting ϕ 1/2" MT5702P00011	1	37

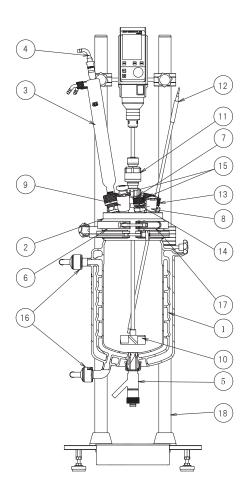
Crystallization Unit



Crystallization Unit: Top



Crystallization Unit: Front Double Wall Reactor



Crystallization Unit: Front Triple Wall Reactor

Crystallization Unit Triple Wall DN150

Crystallization Unit Double Wall DN150

Order Number	Product Description	Quantity
5794-3000	3000 mL	1
	Crystallization Unit	
5794-5000	5000 mL	1
	Crystallization Unit	

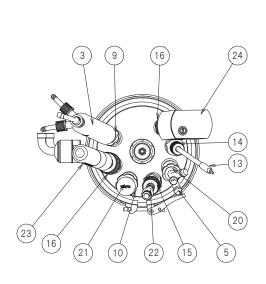
Order Number	Product Description	Quantity
5795-3000	3000 mL Crystallization Unit	1
5795-5000	5000 mL Crystallization Unit	1

Crystallization unit consisting of

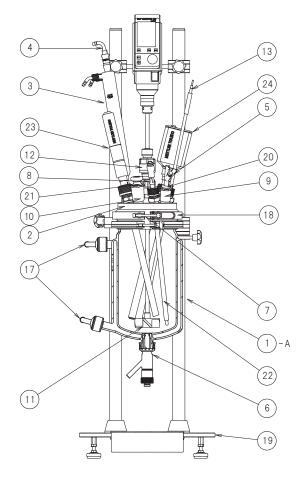
Number	Order Number	Product Description	3000 mL	5000 mL	Quantity	Page
	5742M00005	3000mL Glass reactor Triple Wall with Ring baffle DN150	•		1	18
①	5742M00006	5000mL Glass reactor Triple Wall with Ring baffle DN150		•	1	18
	5712M00005	3000mL Glass reactor Double Wall with Ring baffle DN150	•		1	18
① - A	5712M00006	5000mL Glass reactor Double Wall with Ring baffle DN150		•	1	18
2	5799P00001	PTFE cover for reactor, 8ports	•	•	1	17
3	3442-300W-4L1L	Reflux Condenser, ST24/40	•	•	1	23
4	2402-1L	Exhaust Pipe, bended, ST15/25	•	•	1	23
(5)	3960-01T	Flush Valve, SQG-29/42	•	•	1	22
6	9260R00006	O Ring for DN150	•	•	1	19
7	5702P00003	Compression Screw Fittings, SQG29/42	•	•	1	25
8	MT30215733	Taper joint adapter 3/4" NPT ST24/40	•	•	2	21
9	MT30245674	Taper joint adapter 3/4" NPT ST29/42	•	•	1	21
10	3365P-10/70/650	Stirrer Shaft, Pitched Paddle type	•	•	1	28
11)	3341-5L-10	Universal Stirrer Guide, SQG-29/42	•	•	1	25
12	3381-600	Temperature Sensor	•	•	1	27
13)	MT30245680	Compression Fitting 3/4" NPT, Ø 8	•	•	1	21
14)	MT30245681	Compression Fitting 3/4" NPT, Ø 12	•	•	1	21
15)	MT5702P00008	Compression Fitting 3/4" NPT, Ø 19	•	•	2	21
16)	9199L00001	Metal Adaptor	•	•	2	27
17)	3966-150	Clamp	•	•	1	19
18)	5750000001	Stand: DN 150	•	•	1	26
19	2242-29/42	Flat Head Glass stopper ST29/42	•	•	1	20

^{*} Overhead stirrer motor is not included

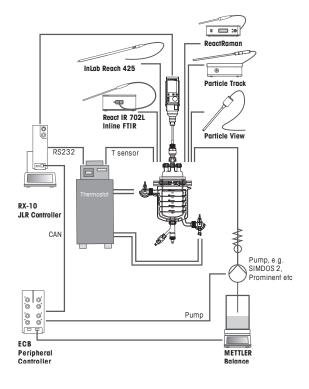
Crystallization Unit with Accessories

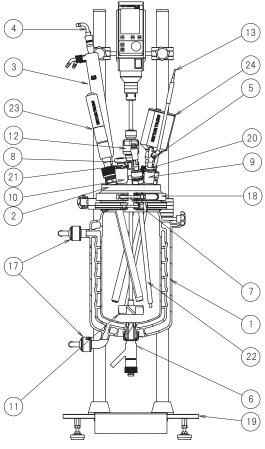


Crystallization: Top



Crystallization: Front Double Wall Reactor





Crystallization: Front Triple Wall Reactor

Crystallization Unit Triple Wall DN150

Crystallization Unit Double Wall DN150

Order Number Product Description		Quantity
5796-3000	3000 mL Crystallization Unit for Accessories	1
5796-5000	5000 mL	1
	Crystallization Unit for Accessories	

Order Number	Product Description	Quantity
5797-3000	3000 mL Crystallization Unit for Accessories	1
5797-5000	5000 mL Crystallization Unit for Accessories	1

Crystallization unit set for Accessories consisting of

Number	Order Number	Product Description	3000 mL	5000 mL	Quantity	Page
	5742M00005	3000mL Glass reactor Triple Wall with Ring baffle DN150	•		1	18
① 5742M00006		5000mL Glass reactor Triple Wall with Ring baffle DN150		•	1	18
	5712M00005	3000mL Glass reactor Double Wall with Ring baffle DN150	•		1	18
① – A	5712M00006	5000mL Glass reactor Double Wall with Ring baffle DN150		•	1	18
2	5799P00001	PTFE cover for reactor, 8ports	•	•	1	17
3	3442-300W-4L1L	Reflux Condenser, ST24/40	•	•	1	23
4	2402-1L	Exhaust Pipe, bended, ST15/25	•	•	1	23
(5)	MT51161834	3-Way Dosing Adapter Set	•	•	1	24
6	3960-01T	Flush Valve, SQG-29/42	•	•	1	22
7	9260R00006	O Ring for DN150	•	•	1	19
8	5702P00003	Compression Screw Fittings, SQG29/42	•	•	1	25
9	MT30215733	Taper joint adapter 3/4" NPT ST24/40	•	•	2	21
10	MT30245674	Taper joint adapter 3/4" NPT ST29/42	•	•	1	21
11)	3365P-10/70/650	Stirrer Shaft, Pitched Paddle type	•	•	1	28
12	3341-5L-10	Universal Stirrer Guide, SQG-29/42	•	•	1	25
13)	3381-600	Temperature Sensor	•	•	1	27
14)	MT30245680	Compression Fitting 3/4" NPT, Ø 8	•	•	1	21
15	MT30245681	Compression Fitting 3/4" NPT, Ø 12	•	•	1	21
16)	MT5702P00008	Compression Fitting 3/4" NPT, Ø 19	•	•	2	21
17)	9199L00001	Metal Adaptor	•	•	2	27
18)	3966-150	Clamp	•	•	1	19
19	5750000001	Stand: DN 150	•	•	1	26
20	2304-14/234L	Reducing Adapter ST-14/23 to ST24/40	•	•	1	24
21)	2242-29/42	Flat Head Glass stopper ST29/42	•	•	1	20

^{*} Overhead stirrer motor is not included

RX-10

Order Number	Product Description	Quantity	Page
30208790	RX-10 units	1	35

Balance

Order Number	Product Description	Quantity	Page
30243431	ML6001T/A00	1	38

ECB

Order Number	Product Description	Quantity	Page
30212440	ECB set	1	39

KNF SIMDOS

Order Number	Product Description	Page	
30335504	KNF SIMDOS 02 FT.18 RC-X	1	41
Order Number	Product Description	Quantity	Page

Connecting Sensors and Analytics

Number	Order Number	Product Description	on		Quantity	Page
22	30248120	InLab Reach 425			1	47
23	14420890	ParticleTrack G400)		1	37
24)	14000031	ParticleView V19			1	37
25	30456495	ReactIR 702L	Needed items: Compression Fitting ϕ 3/8"	MT30245700	1	37
26	304725451	ReactRaman 785	Needed items: Compression Fitting ϕ 1/2"	MT5702P00011	1	37

Uniquely Engineered for Precise Temperature Control

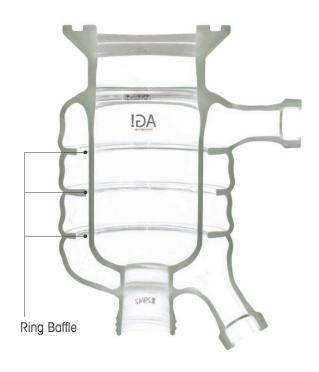
Our Proprietary Ring Baffle Technology forces the thermal fluid in a specific "path" to ensure equal heat distribution while maximizing the working surface area promoting even heat transfer by providing rapid temperature recovery due to endothermic or exothermic reactions quickly and efficiently while maximizing the energy provided by the temperature control unit.

Only AG! offers this advanced design for all our glass reactors.

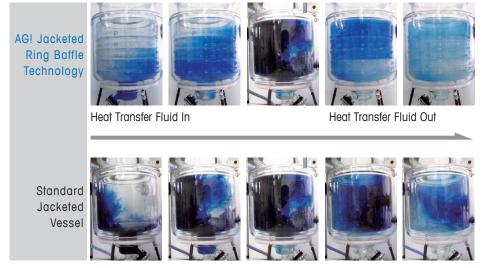
Less Time and More Productivity

Precise and uniform temperature control will improve productivity by decreasing process times while increasing higher yields and reducing your operating costs in your process.

AG! Proprietary Ring Baffle Technology



Precise Temperature Process Control with Integrated Glass Ring Baffle Technology

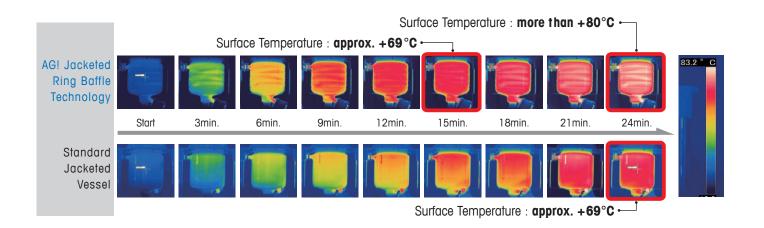


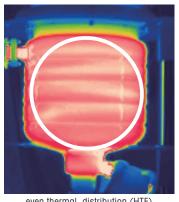
AG! Glass Ring Baffle Technology Benefits:

The AG! design maximizes the heat transfer area

- •Integrated full jacket design
- Optimal heat transfer
- Eliminates hot/cold zones
- Maximizes the energy of the TCU

■ Hot / Cold Zones





even thermal distribution (HTF) <AG! Vessel with Ring Baffle>

localized heating

localized heating <Standard Jacketed Vessel>

Even Heating / Cooling

AG! Glass Ring Baffle prevents 'Short-path' of HTF.

- Optimizes the Heat Transfer to the Internal Vessel
- Uniform and Efficient Temperature Stability

Time to Temperature Study

Case Study 1

Comparison:

AG! Double Wall Ring Baffle 1L Reactor

VS.

AG! Double Wall 1L Reactor

[Terms of Exam] Thermostat: LAUDA RP890C, HTF: Silicone Oil

Result 30 minutes of Time Saving

Note. Double Wall Ring Baffle 1L Reactor: 51.4min. vs. Double Wall 1L Reactor: 83.1min.

Case Study 2

Comparison:

AG! Triple Wall Ring Baffle 60L Reactor

٧S

Competitor Standard Double Wall; Jacketed 50L Reactor

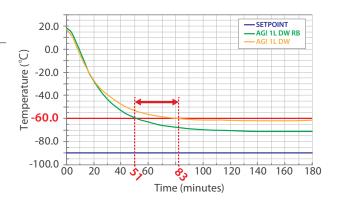
[Terms of Exam] Thermostat: HUBER Unistat 510w, HTF: Silicone Oil

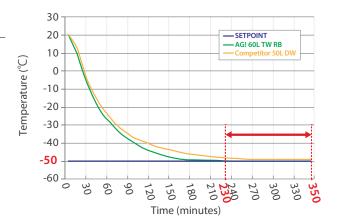
Result 120 minutes of Time Saving

Note. AG!: 230min. vs. Other: 350min. (-49°C)

AG! Advantage:

Competitor reactor did not achieve the targeted temperature (-50°C); 10L difference in reactor volumes





Case Study 3

Comparison:

AG! Triple Wall Ring Baffle 20L Reactor

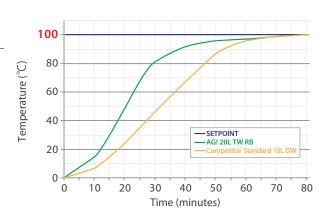
VS

Competitor Standard Double Wall; Jacketed 10L Reactor

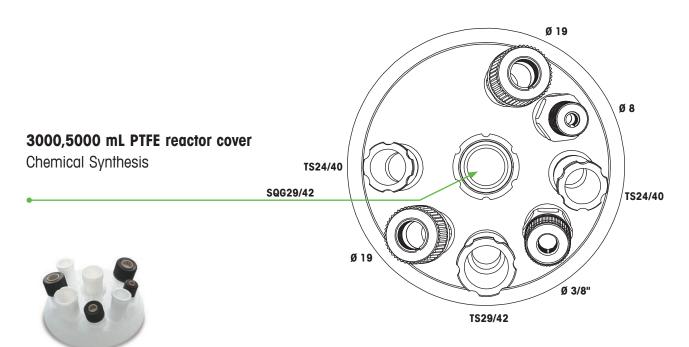
[Terms of Exam] Thermostat: JULABO PRESTO A40, HTF: Silicone Oil

Result 75 mins. to temp; 10L volume difference

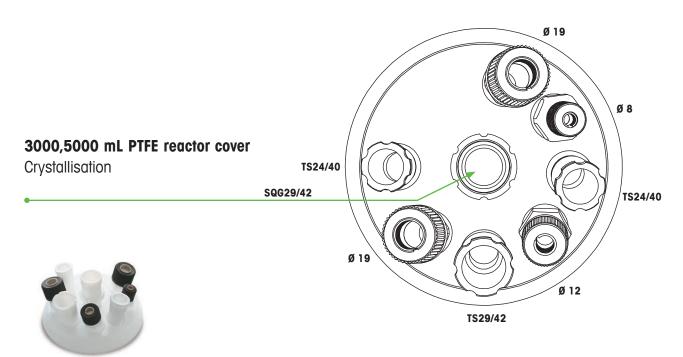
Note. AG!: 75min. vs. Competitor: 75min.



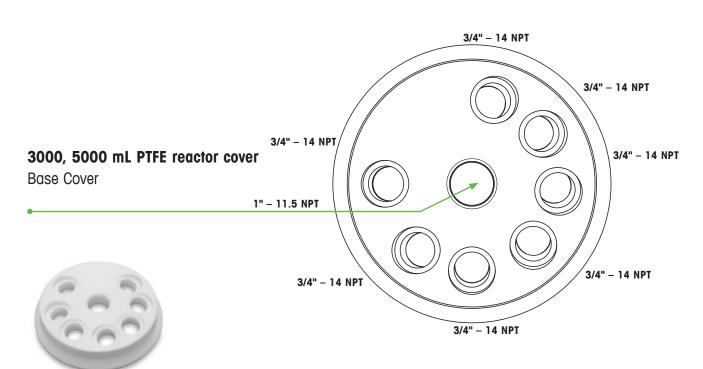
PTFE Reactor Covers



5798P00001	PTFE cover for reactor, 8ports 2 x TS24/40, 1 x TS29/42, center SQG29/42 1 x Ø 8.0, 2 x Ø 19.0, 1 x Ø 3/8"
Material	PTFE
Temperature	-90 °C to 200 °C
Size	Inner Ø 150 mm
Quantity	1



5799P00001	PTFE cover for reactor, 8ports 2 x TS24/40, 1 x TS29/42, center SQG29/42 1 x Ø 8.0, 2 x Ø 19.0, 1 x Ø 12.0
Material	PTFE
Temperature	-90 °C to 200 °C
Size	Inner Ø 150 mm
Quantity	1



5702P00009	PTFE cover for reactor, 8ports 7 x 3/4" - 14 NPT, center 1" - 11.5 NPT
Material	PTFE
Temperature	-90 °C to 200 °C
Size	Inner Ø 150 mm
Quantity	1

Glass ReactorDouble Wall, Triple Wall



5712M00005	3000mL Glass reactor Double Wall with Ring baffle DN150
Material	Borosilicate glass
Working volume	3000mL
Temperature	-90°C to + 230°C
Quantity	1



5742M00005	3000mL Glass reactor Triple Wall with Ring baffle DN150
Material	Borosilicate glass
Working volume	3000mL
Temperature	-90°C to + 230°C
Quantity	1



5712M00006	5000mL Glass reactor Double Wall with Ring baffle DN150
Material	Borosilicate glass
Working volume	5000mL
Temperature	-90°C to + 230°C
Quantity	1



5742M00006	5000mL Glass reactor Triple Wall with Ring baffle DN150
Material	Borosilicate glass
Working volume	5000mL
Temperature	-90°C to + 230°C
Quantity	1

O Ring, Clamp For Glass Reactor



9260R00006	O Ring for DN150
Material	FKM
Quantity	1



9220-362-В	O Ring for DN150
Material	FFKM
Quantity	1



3966-150	Clamp
Material	Stainless steel
Size	DN150
Quantity	1

StoppersFor Reactor Covers



2242-14/23	Flat Head Glass stopper ST14/23
Material	Borosilicate glass
Quantity	1

2242-24/30	Flat Head Glass stopper ST24/30
Material	Borosilicate glass
Quantity	1

2242-29/42	Flat Head Glass stopper ST29/42
Material	Borosilicate glass
Quantity	1



MT51190878	Hex Head Glass stopper ST14/23
Material	Borosilicate glass
Quantity	1



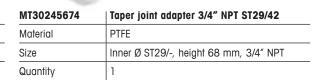
MT30245712	Blanking nut for 1" NPT port
Material	PTFE
Port	1" NPT
Quantity	1

MT30245711	Blanking nut for 3/4" NPT port
Material	PTFE
Port	3/4" NPT
Quantity	1

Standard Taper Joint AdaptersFor PTFE Covers and Reducing Adapters



MT30215733	Taper joint adapter 3/4" NPT ST24/40
Material	PTFE
Size	Inner Ø ST24/-, height 55 mm, 3/4" NPT
Quantity	1



AdaptersFor Probe Sensors



MT30245680	Compression Fitting 3/4" NPT, Ø 8
Material	PTFE
Size	Ø 8 mm, 3/4" NPT
Quantity	1

MT30245681	Compression Fitting 3/4" NPT, Ø 12
Material	PTFE
Size	Ø 12 mm, 3/4" NPT
Quantity	1

MT5702P00008	Compression Fitting 3/4" NPT, Ø 19
Material	PTFE
Size	Ø 19 mm, 3/4" NPT
Quantity	1

MT30245700	Compression Fitting 3/4" NPT, 3/8"
Material	PTFE
Size	Ø 3/8", 3/4" NPT
Quantity	1

MT5702P00011	Compression Fitting 3/4" NPT, 1/2"
Material	PTFE
Size	Ø 1/2", 3/4" NPT
Quantity	1

Flush Valve



3960-01T	Flush Valve, SQG-29/42	
Material	Borosilicate glass, PTFE	
Size	length 150 mm	
Quantity	1	



3960-PTSF	Flush Valve, PTFE Shaft
Material	PTFE
Size	length 149 mm
Quantity	1



3960-В	Flush Valve, Glass Cover, SQG-29/42
Material	Borosilicate glass
Size	length 130 mm
Quantity	1

Flush Valve with thermometer



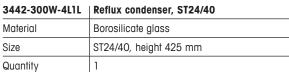
3960-01TT	Flush Valve with thermometer, SQG-29/42
Material	Borosilicate glass, PTFE
Size	length 253 mm
Quantity	1



3960-PTSFT	Flush Valve with thermometer, PTFE Shaft
Material	PTFE
Size	length 253 mm
Quantity	1

Reflux Condenser







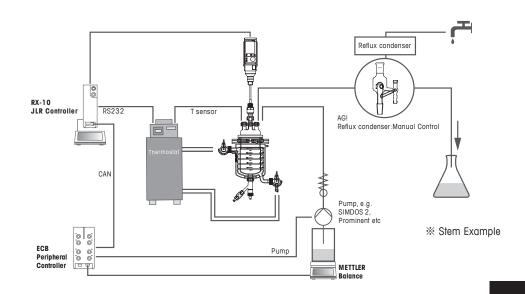
3531-4L-V	Reflux condenser Manual control, ST24/40
Material	Borosilicate glass
Size	ST24/40, height 200 mm
Quantity	1



2402-1L	Exhaust Pipe, bended, ST15/25
Material	Borosilicate glass
Size	ST15/25, height 35 mm
Quantity	1



2232-14S	Reflux condenser Manual control, PTFE Shaft
Material	PTFE, FFKM
Size	height 70 mm
Quantity	1





2057-14-HCL	Hose Adaptor
Material	Nozzle: PP, Screw Cap:PBT, O Ring: VMQ
Size	GL14, height 50 mm
Quantity	1

^{* 3442-300}W-4L1L, 3531-4L-V: Common Parts

Dosing Adaptor



MT51161834	3-Way Dosing Adapter Set
Material	Borosilicate glass, PBT, PTFE, Sillicone rubber
Size	ST14/23-GL14: 3-Way glass adaptor
Quantity	1of each in a set



2304-14/234L	Reducing Adapter ST-14/23 to ST24/40
Material	Borosilicate glass
Size	ST24/40
Quantity	1



MT51190318	Screw cap GL14, closed with PTFE sealing
Material	PBT
Temperature	Max. 200 °C
Quantity	1

SQG AdaptersFor PTFE Reactor Covers



5702P00003	Compression Screw Fittings, SQG29/42
Material	PTFE
Size	SQG29/42, 1" NPT
Quantity	1

Universal Stirrer Guide





http://bit.ly/2AUTzrz

3341-5L-10	Universal Stirrer Guide, SQG-29/42
Material	PTFE
Size	Ø 10 mm, length 180 mm
Quantity	1



3341-510RP	Universal Stirrer Guide, Lock Nut Set Ø 10
Material	PTFE
Quantity	1



3347-518BS	Universal Stirrer Guide, Bearing Seal Ø 10
Material	PTFE
Quantity	1

StandFor Glass Reactor







5750E00001	① Overhead Stirrer Moter Support Unit
Material	SS + Epoxy Resin, SUS304
Size	237 mm x 175 mm (W, D)
Quantity	1



5750C00002	② Clamp Unit
Material	SS + Epoxy Resin, SUS304
Size	302 mm x 323 mm (W, D), DN150
Quantity	1



5750A00001	3 Base Unit
Material	SS + Epoxy Resin, SUS304
Size	380 mm x 380 mm x 1206 (W, D, H)
Quantity	1

Temperature Sensor and Metal Adapter



3381-600	Temperature Sensor
Material	PTFE, Metal filled PTFE
Size	Ø 8 mm, length 660 mm
Quantity	1



9199L00001	Metal Adapter
Material	SUS304, Viton
Size	M16
Quantity	1

Insulated Flexible Hose





http://bit.ly/2JQk9ol

3395161000	Insulated Flexible Hose M16
Operating Temperature	-90 °C to +250 °C
Size	M16, length 1.0 m
Quantity	1

3395162000	Insulated Flexible Hose M16
Operating Temperature	-90 °C to +250 °C
Size	M16, length 2.0 m
Quantity	1

3395161500	Insulated Flexible Hose M16
Operating Temperature	-90 °C to +250 °C
Size	M16, length 1.5 m
Quantity	1

PTFE Stirrers



3365P-10/70/650	Stirrer Shaft, Pitched Paddle type
Material	PTFE, Steel
Size	Ø 10 mm, length 600 mm
Quantity	1



3360P-10/70/600	Stirrer Shaft, Anchor type
Material	PTFE, Steel
Size	Ø 10 mm, length 600 mm
Quantity	1



3364P-10/70/650	Stirrer Shaft, Retreat curve type
Material	PTFE, Steel
Size	Ø 10 mm, length 600 mm
Quantity	1





3353-10/90/650	Stirrer Shaft, HB type
Material	PTFE, Steel
Size	Ø 10 mm, length 650 mm
Quantity	1

AGI Reaction Unit controlled by RX-10

Hydrogeneration Unit



Pressure Reactor

Hydrogeneration Unit

Vessel Capacity: 500 mL, 1000 mL, 1500 mL

Vessel Type: DN 80

Operating Pressure : Full Vacuum to +10 bar G (+1.0 MPa)
Operating Jacket Pressure: Up to +0.5 bar G (+0.05 MPa)

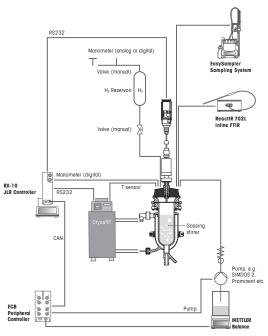
Operating Temperature : -20 °C to +220 °C

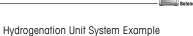
ΔT: 60 °C

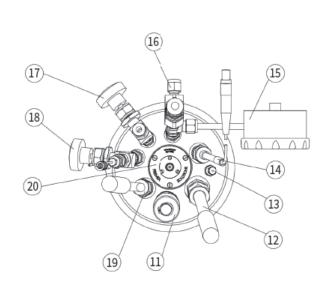
Wetted Parts: borosilicate glass 3.3, PTFE, SS316, and perfluoro(FFKM) This system does not include overhead stirrer, circulator and chiller.

Please contact us about customized systems.

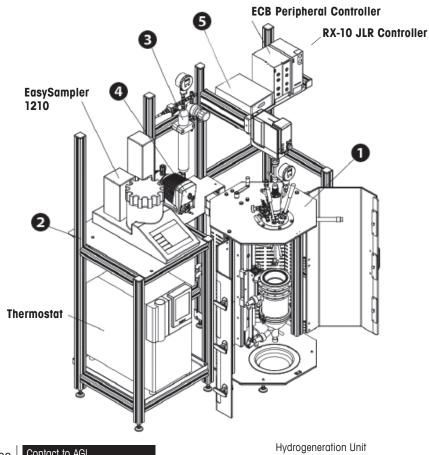
Hydrogeneration Unit

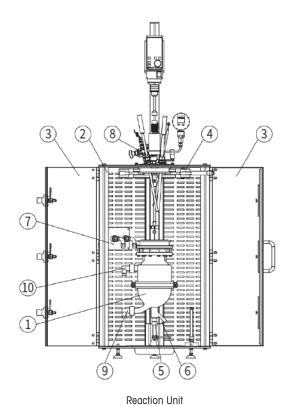






Reaction Unit: Top





Order Number	Product Description	Quantity
5501-500	500 mL Reaction Unit	1
5501-1000	1000 mL Reaction Unit	1
5501-1500	1500 mL Reaction Unit	1

Reaction Unit consisting of

Number	Order Number	Product Description	500 mL	1000 mL	1500 mL	Quantity
	5507-500	500mL Pressure Reactor 10 bar Double Wall DN80	•			1
1	5507-1000	1000mL Pressure Reactor 10 bar Double Wall DN80		•		1
	5507-1500	1500mL Pressure Reactor 10 bar Double Wall DN80			•	1
2		Frame	•	•	•	1
3		Door	•	•	•	1
4		Quick closure	•	•	•	1
(5)		Bottom valve	•	•	•	1
6		Lifting device	•	•	•	1
7		Connection to thermostate	•	•	•	1
8		Autoclave lid	•	•	•	1
9		Inlet thermo liquid	•	•	•	1
10		Outlet thermo liquid	•	•	•	1
11)		Filler plug	•	•	•	1
12		Connection for 1/2" probe	•	•	•	1
13)		1/8" connection for liquid inlet	•	•	•	1
14)		Thermocouple 1 x Pt100	•	•	•	1
(15)		Pressure transmitter	•	•	•	1
16)		Relief valve and connection to pressure transmitter	•	•	•	1
17)		Valve for pressure release	•	•	•	1
18)		Valve for gas inlet	•	•	•	1
19		Connection for 3/8" probe	•	•	•	1
20		Magnetic stirrer head	•	•	•	1

Hydrogeneration Unit consisting of

Number	Order Number	Product Description	500 mL	1000 mL	1500 mL	Quantity
	5501-500	500 mL Reaction Unit	•			1
0	5501-1000	1000 mL Reaction Unit		•		1
	5501-1500	1500 mL Reaction Unit			•	1
2		Frame for equipment	•	•	•	1
8		Gas uptake system	•	•	•	1
4		Prominent pump Beta b	•	•	•	1

RX-10

Thermostate — Huber Petite Fleur

Order Number	Product Description	Quantity	Page	Order Number	Product Description	Quantity
30208790	RX-10 units	1	35	1030.0001.01	Huber Petite Fleur with Pilot ONE	1
ECB				ProMinent	pump	

ECB

Order Number	Product Description	Quantity	Page
30212440	ECB set	1	39

EasySampler 1210

Order Number	Product Description	Quantity	Page
30083901	EasySampler system	1	38

Order Number	Product Description	Quantity	Page
51190994	ProMinent pump BT4b 1601 TTT	1	41

Order Number	Product Description	Quantity	Page
51191739	ProMinent pump BT4b 1601 SST	1	41

Connecting Sensors and Analytics

Number	Order Number	Product Description	Quantity	Page
6	30456495	ReactIR 702I	1	37

Page 33

Pressure Reactor



5507-500	500mL Pressure Reactor 10 bar Double Wall DN80		
Material	Borosilicate glass 3.3		
Nominal Volume	500 mL		
Working volume	200 mL		
Temperature	-20 °C to +220 °C		
ΔΤ	60 °C		
Quantity	1		



5507-1000	1000mL Pressure Reactor 10 bar Double Wall DN80
Material	Borosilicate glass 3.3
Nominal Volume	1000 mL
Working volume	700 mL
Temperature	-20 °C to +220 °C
ΔΤ	60 °C
Quantity	1



5507-1500	1500mL Pressure Reactor 10 bar Double Wall DN80
Material	Borosilicate glass 3.3
Nominal Volume	1500 mL
Working volume	1000 mL
Temperature	-20 °C to +220 °C
ΔΤ	60 °C
Quantity	1



O Ring, Metal Adapter, Thermostat For Pressure Reactor



9220-349	O Ring for DN80
Material	FFKM
Quantity	1

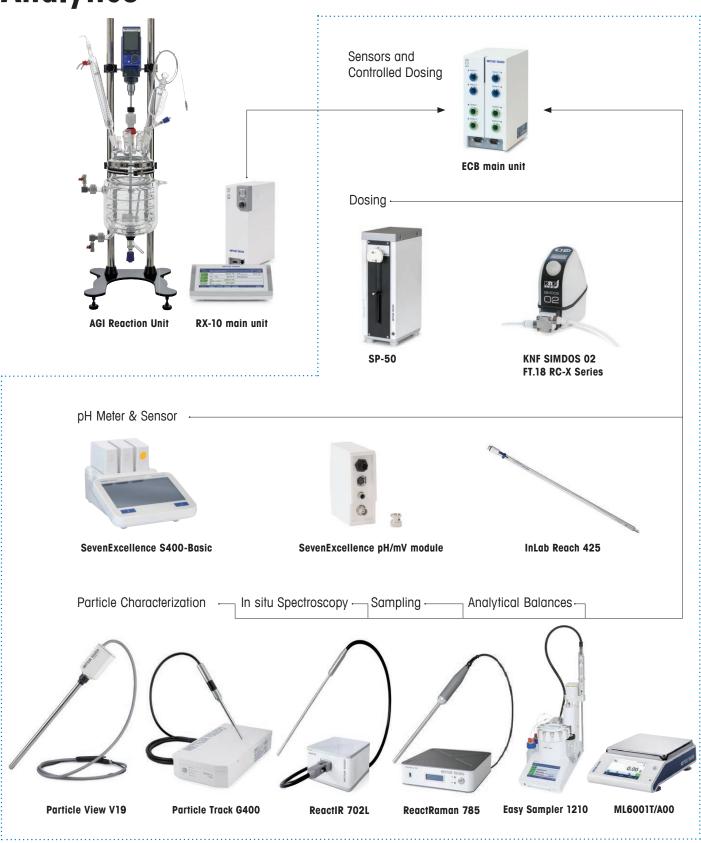


9199L00001	Metal Adapter
Material	SUS304, Viton
Size	M16
Quantity	1



1030.0001.01	Huber Petite Fleur with Pilot ONE
Temperature Range	-40200 °C
Temperature Stability	±0,01 °C
Display Resolution	0,01 °C
Dimensions (W x D x H)	260 x 450 x 504 mm
Weight	45 kg
Quantity	1

Connecting Sensors, Dosing Devices and Analytics



RX-10[™]

Reactor Control and Data Capture

RX-10 provides an interface connecting any types and volumes of jacketed reactors to cryostats, thermostats, stirrer motors, and sensors. This allows researchers to precisely control and monitor chemical reactions and processes in the lab or kilo lab environment



30208790 RX-10 with 1 m touchscreen cable

Touchscreen-based control unit to automate and monitor jacketed lab reactors. Third party thermostats, stirrers and sensors can be connected via plug-and-play interfaces.

30217050 RX-10 with 3 m touchscreen cable

Please contact us about Automated Lab Reactor Control.

www.mt.com/SynthesisWorkstations

RX-10 units consisting of

Order Number	30208790 RX-10 Unit	30217050 RX-10 Unit	Quantity	Page
30303438		RX-10 main unit	1	36
51161883	Touchscreen 7", 1 m cable		1	36
30303580		Touchscreen 7", 3 m cable	1	36
30281496		Lab bar holder	1	36
30090591	Power supply		1	36
		USB memory stick	1	
		iControl CD	1	
	iC	Control Office License	1	
30281497	Thermostat/stirrer RS232 cable set, 6 cables		1	36
	RX-10 Quick Start Guide		1	

Note: Large image may not show all parts in the sets.

Connecting Apparatuses



30303438	RX-10 main unit
Size	70 mm x 152 mm x 215 mm (w, d, h)
Weight	2.88 kg, including touchscreen
Quantity	1



51161883	TFT touchscreen 7", 1 m cable
Material	PA, aluminium
Size	195 mm x 135 mm x 60 mm (w, d, h)
Quantity	1

30303580	TFT touchscreen 7", 3 m cable
Material	PA, aluminium
Size	195 mm x 135 mm x 60 mm (w, d, h)
Quantity	1



30281496	Lab bar holder
Material	aluminium, stainless steel
Size	134.75 mm x 35.5 mm x 30 mm (I, w, h)
Quantity	1



30281497	Thermostat/stirrer RS232 cable set dedicated and color coded
Size	Length 2.9 m each
Quantity	6 pcs per set



	Power supply for CAN bus devices required if additional CAN devices are connected
Quantity	1



http://bit.ly/2x4X1wD

Optional Accessories

For RX-10



30260369	Emergency button
Size	125 mm x 80 mm x 95 mm (l, w, h)
Quantity	1

30267163	SmartConnect Pt100 cable with loose ends for Pt100 sensors
Quantity	1
30267165	SmartConnect sensor cable with loose ends for Pt100 and other sensors
Quantity	1
30254779	SmartConnect LE03/EV-120 cable for pressure measurement
Quantity	1

Sampling, inline Analytics and Measurement





http://bit.ly/2x1qcRx

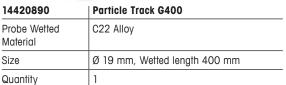




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14000031	Particle View V19
Probe Wetted Material	C22 Alloy
Size	Ø 19 mm, Wetted length 400 mm
Quantity	1

ParticleView V19 with PVM (Particle Vision and Measurement) technology is a probe-based video microscope that visualizes particles and particle mechanisms as they exist in process.



ParticleTrack G400 with FBRM Technology is a probe-based instrument that is inserted directly into laboratory reactors to track changing particle size and count in real time at full process concentrations.





http://bit.ly/2AHo30h





http://bit.ly/20U3S74

30456495	ReactIR 702L
Probe Wetted Material	C-22, Gold, PTFE, Diamond, Silicon
Size	Ø 9.5 mm, Prove length 457 mm
Quantity	1

304725451	ReactRaman 785
Probe Wetted Material	C-276, Sapphire, Gold
Size	Ø 12.7 mm, Wetted length 260 mm
Quantity	1

ReactIR 702L is a real-time, in situ mid-infrared based system designed to study reaction progression and provide specific information about reaction initiation, conversion, intermediates and endpoint.









http://bit.ly/2AnitA5



30083901	Easy Sampler 1210
Material	Housing: Polypropylene PP 30% Talcum Tubing: PTFE Needle: Stainless steel Valve: Ceramic Pump: Ceramic, PTFE
Size	310 mm x 500 mm x 465 mm, Ø 9.5 mm
Quantity	1

The EasySampler 1210 offers unattended and representative sampling for a wide range of chemical reactions.

30243431	ML6001T/A00
Material	Maximum Capacity: 6,200 g Readability: 0.1 g Interfaces: RS232, USB Device, USB Host AdjustmentInternal / FACT Legal for Trade: Yes Repeatability (typical): 0.06 g Settling Time: 1 s Repeatability: 0.1 g
Weighing pan size	170 x 190 mm
Quantity	1

ECB[™] – **Easy Control Box** Sensors and Controlled Dosing



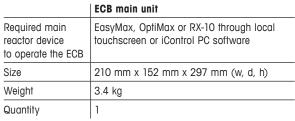
30212440 ECB

Adds capabilities for additional sensors (pH, pressure, turbidity, massflow etc.) and controlled dosing to EasyMax, OptiMax and RX-10. Usage either through local touchscreen or iControl PC software.

ECB set consisting of

Order Number	Product Description	Quantity	Page
	ECB main unit	1	40
51191988	CAN cable 1.0 m	1	40
30281496	Lab Bar Holder	1	40







51191988	CAN cable 1.0 m
Size	Length 1.0 m
Quantity	1



30281496	Lab bar holder
Material	aluminium, stainless steel
Size	134.75 mm x 35.5 mm x 30 mm (l, w, h)
Quantity	1



http://bit.ly/2N4MM6E

Optional Accessories



30090591	Power supply for CAN bus devices
	required if additional CAN devices are connected
Quantity	1



30264936	CAN cable 3.0 m
Size	Length 3.0 m
Quantity	1

Controlled Dosing

With the Easy Control Box (ECB)



30335504	KNF SIMDOS 02 FT.18 RC-X 30 µL - 20 mL/min, max pressure 6 bar
Material	Pump head: PTFE, Diaphragm: PTFE covered Valves: FFKM Kalrez, Filter: PEEK
Quantity	1

30335503	KNF SIMDOS 10 FT.18 RC-X 1 mL - 100 mL/min, max pressure 6 bar
Material	Pump head: PTFE, Diaphragm: PTFE covered Valves: FFKM Kalrez, Filter: PEEK
Quantity	1



30254805	SmartConnect KNF SIMDOS control cable
Size	Length 2.0 m
Quantity	1



51190994	ProMinent pump BT4b 1601 TTT Capacity at 8 bar, backpressure: 23 mL/min, suction/discharge valves: PTFE with carbon
Material	Seals: PTFE, diaphragm: PTFE valve balls: ceramic
Quantity	1

51191739	ProMinent pump BT4b 1601 SST Capacity at 8 bar, backpressure: 23 mL/min, suction/discharge valves: stainless steel
Material	Seals: PTFE, diaphragm: PTFE valve balls: ceramic
Quantity	1



30254804	SmartConnect ProMinent control cable
Size	Length 2.0 m
Quantity	1

Dosing Unit SP-50 Set

 $\ensuremath{^{*}}$ The number beginning with "MT" can be purchased at AGI



51161770 Dosing unit SP-50 set

This unit allows the dosing of one reagent in two reactors completely independent and in parallel via touchscreen or PC software.

Only available in the set.

Dosing unit SP-50 set consisting of

Order Number	Product Description	Quantity	Page
	Dosing Unit SP-50, only available in the set	1	43
51191988	CAN cable 100 cm	1	43
51191306	PTFE dosing tube Ø 3.2 mm	3	43
51191304	PTFE dosing tube Ø 1.6 mm	2	43
MT51191514	Ferrule for tubing and sensors of outer Ø 3.2 mm, 4 pcs in a set	1	43
MT51191515	Nut for UNF 1/4-28 threads, outer Ø max. 3.2 mm , 4 pcs in a set	1	43
MT51191202	Ferrule for tubing and sensors of outer Ø 1.6 mm, 4 pcs in a set	1	43
MT51191203	Nut for UNF 1/4-28 threads, outer Ø max. 1.6 mm, 4 pcs in a set	1	43
MT51191204	Plug for UNF 1/4-28 threads, 4 pcs in a set	1	43
MT51191267	Glass adapter ST14/23-GL14	2	44
MT51192208	Glass adapter ST19/26-GL14	1	44
MT51190318	Screw cap GL14, closed	3	44
MT51191170	Silicone rubber seal (septum)	10	44
MT51190317	Screw cap GL14, with aperture	3	44
MT51103947	Silicone rubber sealing ring for screw cap GL14, aperture 6 mm	1	44
MT51191591	Bottle GL45 250 mL	1	44
MT51191972	Distributor cap GL45 2 x GL14	1	44
MT51161558	Adapter GL14-UNF with 1 UNF 1/4-28 port	3	44
MT51191687	Assorted heat-shrink tubings, 8 pcs in a set	1	44

Note: Large image may not show all parts in the set.



	Dosing unit SP-50
Size	100 mm x 150 mm x 296 mm (w, d, h)
Quantity	1

Note: Only available in the set



51191988	CAN cable 100 cm
Size	Length 100 cm
Quantity	1



51191306	PTFE dosing tube Ø 3.2 mm
Material	PTFE
Size	Ø 3.2 mm, length 2.5 m
Quantity	1



51191304	PTFE dosing tube Ø 1.6 mm
Material	PTFE
Size	Ø 1.6 mm, length 2.5 m
Quantity	1



MT51191514	Ferrule for tubing and sensors of outer Ø 3.2 mm
Material	ETFE
Size	Inner Ø max. 3.2 mm
Quantity	4 pcs in a set



MT51191515	Nut for UNF 1/4-28 threads
Material	ETFE
Size	Inner Ø max. 3.2 mm
Quantity	4 pcs in a set



MT51191202	Ferrule for tubing and sensors of outer Ø 1.6 mm
Material	ETFE
Size	Inner Ø max. 1.6 mm
Quantity	4 pcs in a set



MT51191203	Nut for UNF 1/4-28 threads
Material	ETFE
Size	Inner Ø max. 1.6 mm
Quantity	4 pcs in a set



MT51191204	Plug for UNF 1/4-28 threads
Material	ETFE
Size	Outer Ø max. 1.6 mm
Quantity	4 pcs in a set



MT51191267	Glass adapter ST14/23-GL14
Material	Borosilicate glass
Size	Height 54 mm
Quantity	1



MT51192208	Glass adapter ST19/26-GL14	
Material	Borosilicate glass	_
Size	Height 50 mm	_
Quantity	1	_



MT51190318	Screw cap GL14, closed with PTFE sealing
Material	PBT
Temperature	Max. 200 °C
Quantity	1



MT51191170	Silicone rubber seal (septum) for screw cap GL14
Material	Silicone rubber VQM
Size	Ø 12 mm, thickness 2 mm
Quantity	1



MT51190317	Screw cap GL14, with aperture
Material	PBT
Temperature	Max. 200 °C
Aperture	Ø 9.5 mm
Quantity	1



	Silicone rubber sealing ring with vulcanized-on PTFE washers for screw cap GL14
Material	Silicone rubber VQM, PTFE-coated
Size	Ø 12 mm, aperture 6 mm
Quantity	1

Can also be used for Ø 1/4" 6.35 mm inserts



MT51191591	Bottle GL45 250 mL with cap
Material	Glass, PP
Quantity	1



MT51191972	Distributor cap GL45 2 x GL14
Material	PP
Ouantity	1



MT51161558	Adapter GL14-UNF with 1 UNF 1/4-28 port for screw cap GL14
Material	PTFE GF25
Size	Inner Ø 3.4 mm, 20 mm
Quantity	1



	Assorted heat-shrink tubings 8 pcs in a set
Material	Polyolefin
Quantity	1

Dosing Unit SP-50 Syringes1 mL, 10 mL, 25 mL, and 50 mL



MT51191793	Syringe 1 mL
Material	Glass, PTFE, metal
Volume	1 mL
Quantity	1



MT51191792	Syringe 10 mL
Material	Glass, PTFE, metal
Volume	10 mL
Quantity	1



MT51191794	Syringe 25 mL
Material	Glass, PTFE, metal
Volume	25 mL
Quantity	1



MT51191987	Syringe 50 mL
Material	Glass, PTFE, metal
Volume	50 mL
Quantity	1

Optional Accessory



 $[\]ensuremath{^{*}}$ The number beginning with "MT" can be purchased at AGI

SevenExcellence[™] for RX-10 pH/mV Measurement Equipment

* The number beginning with "MT" can be purchased at AGI



SevenExcellence pH/mV meter system for EasyMax or RX-10

pH measurement without any additional control box. Just connect the SevenExcellence to the EasyMax/RX-10 instrument. EasyMax/RX-10 will log pH data and show them online on the touchscreen.

SevenExcellence pH measurement recommended items

Order Number	Product Description	Quantity	Page
30046240	SevenExcellence S400-Basic including one pH/mV module	1	47
30034472	SevenExcellence pH/mV module	1	47
30248120	InLab Reach 425 (Ø 12 mm, length 425 mm)	1	47
51191926	USB A-B cable (connection cable to EasyMax/RX-10)	1	47
30281915	BNC to S7 connector cable, 1.2 m	1	47
30281916	BNC to S7 connector cable, 3.0 m	1	47
30281917	BNC to S7 connector cable, 5.0 m	1	47
MT51161852	ST14 adapter set for probes, Ø 1.6 mm to 8 mm	1	47

Note: Large image may not show all parts of the SevenExcellence S400-Basic Instrument.







30034472	SevenExcellence pH/mV module for analog sensors only (no ISM)
Quantity	1



30248120	InLab Reach 425 for 3000 mL, 5000mL reactors
Temperature	0 °C to 100 °C
Size	Ø 12 mm, length 425 mm, electrode head S7
Quantity	1



MT51161852	ST14 adapter set for Ø 1.6 mm to 8 mm to suit pH electrodes into reactor covers
Material	Glass, PBT, PTFE, silicone rubber
Quantity	1 of each in a set

Note: See Page 97 for details



	BNC cable, 1.2 m to connect pH electrode with S7 head to SevenExcellence pH electrode
Size	Length 1.2 m
Quantity	1

30281916	BNC cable, 3.0 m
Size	Length 3.0 m
Quantity	1

30281917	BNC cable, 5.0 m
Size	Length 5.0 m
Quantity	1



51191926	USB A-B cable for data transfer from SevenExcellence to EasyMax/RX-10
Size	Length 3.0 m
Quantity	1



http://bit.ly/2x1UROx

iControl™ Software

For RX-10

The software for experiment preparation, instrument control and data evaluation

- iControl for single or multiple instruments
- iControl for Office
- iCare software maintenance



iControl Software for EasyMax, OptiMax, and RX-10

iControl provides the maximum amount of information from a single experiment. It uses a simple-to-operate user interface enabling EasyMax, OptiMax, and RX-10 to be operated by either the PC software or in combination with the touchscreen. iControl enables scien-tists to gain a comprehensive understanding of the chemical reaction under study. The combination of reactor data with information from METTLER TOLEDO analytical tools helps chemists in research and development reach appropriate conclusions from each experiment, enabling them to make better decisions and complete projects faster.

Order Number	License type	Description
51161893	iControl Single Instrument License	Software license for experiment preparation, control and data evaluation for one instrument
51161894	iControl Multiple Instrument Option	Software license for experiment preparation, control and data evaluation for up to three instruments
51162613	iControl Office License	Software license for experiment preparation and experiment evaluation
51162629	iCare for iControl Instrument	Software maintenance for instrument license



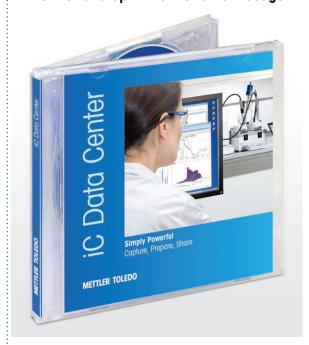
http://bit.ly/2x3xpjQ

iC Data Center™

Capture, Prepare, Share

iC Data Center acts as the data link between touchscreens, iControl and iC software applications. It makes data handling simple thanks to the following key functionalities:

- Automated saving of experimental data
- Automated preparation of data files and reports
- Easy data sharing with the help of automatic email notifications
- Monitor and optimize instrument usage with help of an utilization dashboard



An estimated 85% of lab data is lost because it is not transferred from lab instruments or is not recorded at all. iC Data Center makes day-to-day work significantly easier for researchers and their colleagues by ensuring all experiment data is automatically captured from the local instruments, prepared into useful formats, and shared on a central file store.

With an easy-to-use web based interface for configuration and on-going monitoring of the lab, iC Data Center is a powerful tool that improves productivity for the researcher while facilitating knowledge management for the organization.



http://bit.ly/2N76b6G



Reaction Unit



[Lab] Vessel Capacity : 300 mL, 500 mL, 1 L, 2 L, 3 L, 5 L [Plant] Vessel Capacity : 10 L, 20 L, 30 L



Short Path Evaporator



Evaporation Surface Area : 0.05 m^2 (DN60), 0.1 m^2 (DN100)



Filter Reactor



[Lab] Vessel Capacity: 1 L, 2 L, 3 L, 5 L [Plant] Vessel Capacity: 10 L, 20 L, 30 L



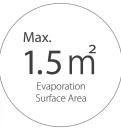
Rotary Evaporator



Vessel Capacity : 20 L, 30 L, 50 L, 100 L, 200 L









[Lab] Vessel Capacity: 1 L, 2 L, 3 L, 5 L (Max. 2 bar G) [Plant] Vessel Capacity: 10 L, 20 L, 30 L (Max. 1.5 bar G)

Thin Film Evaporator



Evaporation Surface Area : 0.05 m^2 (DN60), 0.1 m^2 (DN100)

Customized Configurations are also available!

Together we can work to find the perfect solution to suit your application requirements. Please contact us about customized systems.



About Asahi Glassplant Inc.

Working with glass for over 65 years, we have developed unique and innovative technology, which optimize the distinct characteristics of glass.

Such technology enables us to offer the largest variation from small scale glassware to plant scale glass apparatus and materialize the wish list of researchers and chemical engineers.

www.agi.co.jp



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