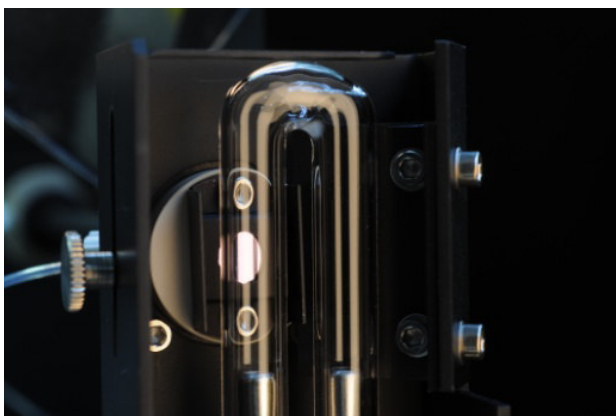
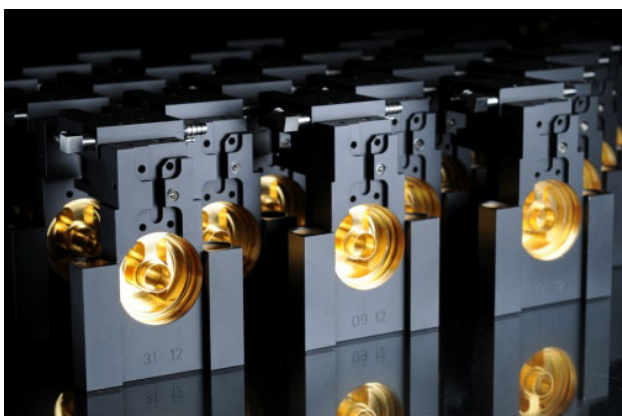


Catalogue CONSUMABLES

Atomic Absorption Spectrometry



AAS I HR-CS AAS

novAA[®] series

ZEE nit P series

contrAA[®] series

AFS

mercur

Please choose your Consumables list.



Consumables

AAS

GRAPHITE TECHNIQUE

Graphite material / furnace spare parts

[vario 6 ; novAA 400 ; contrAA 700 ; contrAA 600]



407-A81.018 2 Pair graphite electrode (4 pieces)



407-A81.024 Graphite shroud, pyro-coated

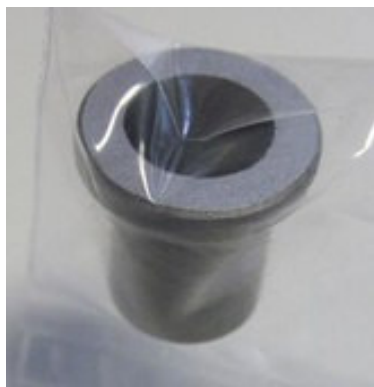


407-A81.011 Pack of 10 pieces graphite tube, coated



407-A81.025 Pack of 10 pieces graphite tube with PIN-platform

	Order number	Description
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407-A81.020

Pack of 5 pieces Graphite pipetting insert

solid sampling

[vario 6 ; novAA 400 ; contrAA 700]



702-A81.391

IC-graphite shroud solid (necessary for solid sampling), pyro-coated



702-A81.392

Graphite sealing cap for the furnace in the solid analysis 1 pieces



702-A81.314

Adjustment aid (external) novAA, contrAA






702-A81.394

Adjusting aid (internal) novAA, contrAA

	Order number	Description
	407-152.023	Pack of 10 pieces Z-graphite sample platform (solid), pyro-coated
	407-A81.303	Pack of 10 pieces solid graphite tube, pyro-coated
	407-A81.320	Spectral graphite powder, 25 g




Replacement parts furnace

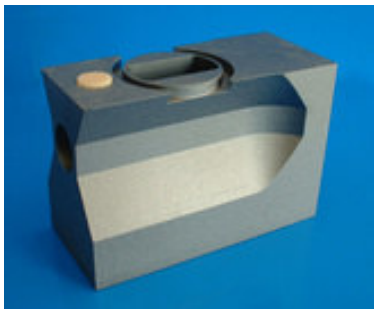




	407-A81.021	Bag with 2 pieces O-rings for the furnace, ceramic
	702-A81.045	Adjusting insert
	407-142.312	Furnace windows contrAA 700, 1 pair <i>from SN: 161K0335</i>

	Order number	Description
	702-A81.002	Furnace windows, 1 pair (novAA 400, vario6)
	407-10-1610-679-14	Sample compartment windows contrAA 300/600, 1 pair
	407-150.598	Sample compartment windows contrAA 700, 1 pair
	702-A81.234	Screwed gas fittings, 1 x long
	702-A81.233	Screwed gas fittings, 2 x short

Graphite material ZEE nit

Graphite material [ZEE nit 600/650/700] and all upgraded systems ZEE nit 600s/650s
all tubes are pyrolytically coated

	Order number	Description
	407-152.342	Pair of Z-electrodes (1x above, 1x below)
	407-152.314	Pack of 10 pieces Z-graphite tube with PIN-platform, long
	407-152.315	Pack of 10 pieces Z-standard graphite tube
	407-152.346	Pack of 5 pieces Z-graphite insert
	407-152.324	Set of graphite parts furnace <i>Set 1 ZL-graphite shroud, 2 electrodes and 1 pipetting insert</i>


	Order number	Description
	407-152.340	Z-graphite shroud liquid
solid sampling		
	407-152.540	Adjusting aid (external), solid, ZEE nit
	407-152.599	Adjustment aid (internal), solid, ZEE nit
	407-152.023	Pack of 10 pieces Z-graphite sample platform (solid), pyro-coated
	407-152.316	Pack of 10 pieces Z-standard graphite tube, solid

	Order number	Description
	407-152.307	Pack of 5 pieces Z-graphite sealing cap (solid)
	407-A81.320	Spectral graphite powder, 25 g
	407-152.341	Z-graphite shroud, solid

Replacement parts graphite furnace ZEE nit

[ZEE nit 600 ; 650 ; 700 ; 650P ; 700P und 600 S ; 650S]



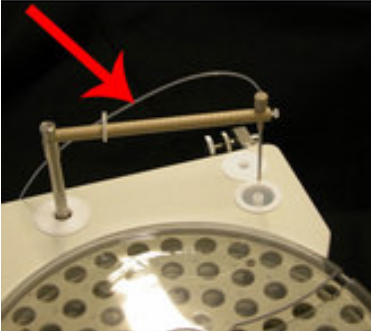
	407-152.020	Bag with 3 pieces seal rings 11.6 mm x 1.2 mm for the furnace
	407-152.541	Adjusting aid (external), liquid, ZEE nit
	407-152.022	Furnace windows, 1 pair (left, right) (ZEE nit 60/65)





	Order number	Description
	407-152.576	Furnace windows, 1 pair (ZEE nit 600/650/700)



Replacements for graphite autosampler MPE

MPE 60 [novAA 400; ZEE nit]

for serial number in format XX.XX.XX






	407-230.069	Dosing unit 500 µl
	407-401.590	Dosing tube MPE (MFA)
		






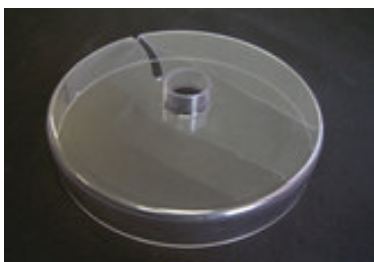
	Order number	Description
	407-230.067	Wide neck bottle 750 ml
	407-230.073	Pack of 10 pieces PP-sample cup, 5 ml
	407-218.852	Polystyrene-sample cup 1,5 ml; 1,000 pieces
	407-230.075	Pack of 10 pieces PTFE- sample cup, 2 ml

	Order number	Description
	407-230.072	Pack of 10 pieces PTFE-special cup, 5 ml
	407-230.078	Set tubing guide (Ti cannula with PTFE tubing and PEEK tube)

MPE 60 [novAA 400 ; ZEE nit ; contrAA 700]
for serial number in format XXX.XXX and XXXXXXXXXXXX

	407-402.597	Inlet tube PTFE (bottle-valve)
		
	407-403.158	Dosing unit 500 µl from S/N 703.801 (March 2007)

	Order number	Description
 A clear plastic dosing unit with a gold-colored cap and a long, thin metal needle.	407-230.069	Dosing unit 500 µl
 A clear plastic dosing tube with a small black cap at one end.	407-401.590	Dosing tube MPE (MFA)
 A close-up of the dosing tube MPE (MFA) being used in a machine. A red arrow points to the tube.		
 A clear plastic sample cup.	407-230.073	Pack of 10 pieces PP-sample cup, 5 ml
 A clear plastic sample cup containing a small amount of liquid.	407-218.852	Polystyrene-sample cup 1,5 ml; 1,000 pieces

	Order number	Description
	407-402.595	Sample tray standard / 89 Positions
	407-230.075	Pack of 10 pieces PTFE- sample cup, 2 ml
	407-230.072	Pack of 10 pieces PTFE-special cup, 5 ml
	407-402.593	Tubing guide for dosing tubing
	407-402.594	Tube fixing for autosampler arm
	407-402.596	Sample tray cover

Order number	Description
407-233.912	Wide neck bottle 1,000 ml (with cap)



Furnace Tools

Furnace Tools - Sets




407-A60.066

Tool kit novAA400 / contrAA 700 /contrAA 600 / vario 6



consisting of:

- Key 7-40
- Reducing die for electrode
- Reducing die for shroud
- Spindle

Order number	Description
	<p>407-152.300 Tool kit ZEEnit 600/650/700</p> <p><i>consisting of:</i></p> <ul style="list-style-type: none"> - Screw extractor - Reducing die tool - Adjustment tool - Adjusting insert

Replacements Tools ZEEnit

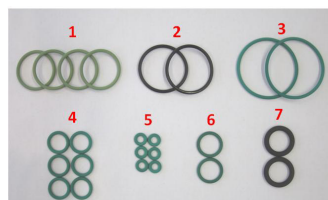
	<p>407-400.409 Mechanic's mirror</p>
	<p>407-401.404 Tweezers (titanium)</p>
	<p>407-401.045 Screwdriver 5.5 x 1.0</p>

	Order number	Description
	407-401.036	Key 7-40 (ZEEnit 600/650/700/650P/700P)
	407-401.039	Change-over ratchet (ZEEnit 600/650/700/650P/700P)
	407-401.037	Extension 1/4" (ZEEnit 600/650/700/650P/700P)

FLAME TECHNIQUE

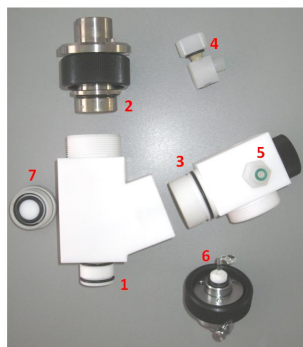
Burner-Nebulizer-System

(Teflon, PEEK)






702-A63.623


Seal rings for siphon and mixing compartment



	Order number	Description
 <p>The image shows two rows of seals. The top row has six rings: two black, two green, and two blue. The bottom row shows the same rings installed on a nebulizer assembly, with red numbers 1, 2, and 3 indicating their positions.</p>	702-A63.621	Seals rings for nebulizer
 <p>The image shows a long, thin metal plate with three holes. Below it are three sets of hardware: a washer, a nut, and a screw for each hole.</p>	407-160.411	Replacement-set 2 for scraper (1x plug plate, 3x screws, 3x nuts, 3x washers)
 <p>The image shows a clear, L-shaped glass impact bead.</p>	702-A63.626	Impact bead, 2 pieces
 <p>The image shows a clear, L-shaped glass impact bead with a PTFE coating.</p>	407-140.177	Impact bead, PTFE coated, 1 piece (to work with HF)
 <p>The image shows a set of spare parts for a burner, including a Ti screw and a spacer.</p>	702-A63.101	Spare parts for burner acetylene/air (Ti screw and spacer)
 <p>The image shows a set of spare parts for a burner, including a Ti screw and a spacer.</p>	702-A63.103	Spare parts for burner acetylene/N2O (Ti screw and spacer)

	Order number	Description
	702-A63.641	cap nebulizer (PEEK)
	702-A63.625	Pack of 5 pieces cleaning wires
	702-A63.624	Pack of 50 pieces cleaning rods
	407-140.030	PEEK spray chamber (recommended for difficult sample matrix)
	407-111.001	Quartz tube for HPT burner head (5 cm slit length)

	Order number	Description
	702-A63.204	Cleaning part for burner acetylene/N2O (long version)
	407-A63.505	Screw (PEEK) for Syphon (special model) <i>replaced by 407-111.316</i>
	407-111.316	Screw (PTFE or PP) for Syphon
	407-1508.108	level sensor for organic issues

Order number	Description
	<p>407-140.014 Set Seal ring for siphon and mixing compartment for organic samples (Kalrez)</p>

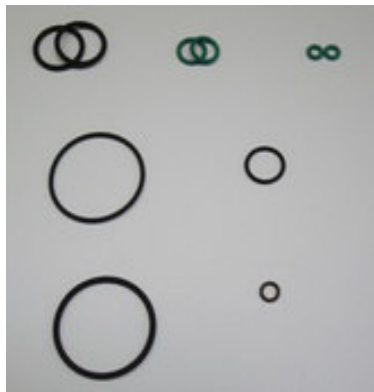
	Order number	Description
Burner-Nebulizer-System		
(Ryton - MK)		
	407-111.837	Waste tube siphon (1,3m)
	407-111.006	Inlet tube <i>0.8 mm x 1.4 mm with couple unit (40 cm for manual work)</i>
	407-111.008	Inlet tube AS51S/AS52S (PTFE) <i>(cannula AS to nebulizer) 0.8 mm x 1.4 mm 50 cm</i>
	407-403.311	Apiezon-grease in tube
	407-140.411	Replacement-set 1 for scraper <i>(Scratches, screws)</i>

	Order number	Description
	407-160.411	Replacement-set 2 for scraper <i>(1x plug plate, 3x screws, 3x nuts, 3x washers)</i>
	407-111.407	Mixing wing
	407-111.401	Mixing chamber <i>contrAA 300: from S/N 1600346</i> <i>contrAA 700: from S/N 161K0335</i> <i>ZEEnit 700P: from S/N 150Z7P0191</i> <i>novAA 350: from S/N AA1A0908056</i>
	407-111.475	Mixing chamber plugs
	407-403.147	O-ring 8,5 x 1,8 for nebulizer
	702-A63.625	Pack of 5 pieces cleaning wires

	Order number	Description
	702-A63.624	Pack of 50 pieces cleaning rods
	407-111.865	Impact bead (N2O-FL-long/ceramic)
	407-111.860	Impact bead (standard-short/ceramic)
	407-111.001	Quartz tube for HPT burner head (5 cm slit length)
	407-111.409	Knurled screw for mixing-chamber-parts

	Order number	Description
	702-A63.204	Cleaning part for burner acetylene/N ₂ O (long version)
	407-111.316	Screw (PTFE or PP) for Syphon
	407-1508.108	level sensor for organic issues
	407-143.021	Set sealing rings mixing-chamber-nebulizer-system <ul style="list-style-type: none"> • Set O-ring mixing chamber • plug with O-ring • O-ring 8.5 x 1.8 for nebulizer
	407-111.402	Set o-rings for organic samples

Order number	Description
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407-111.005 Set o-rings mixing chamber



407-111.501 Nebulizer (graphite)
useable with mixing-chamber-nebulizer-system III (brown)

further spare parts



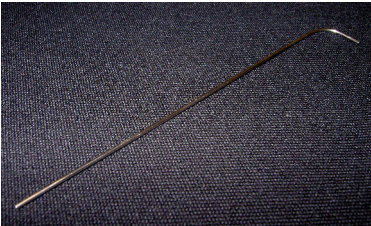
407-140.040 Waste bottle


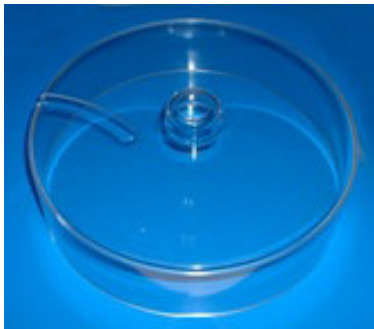




	Order number	Description
	407-110.499	Drip pan (novAA 300, 350,400 ; contrAA 300,700)
	407-160.411	Replacement-set 2 for scraper (1x plug plate, 3x screws, 3x nuts, 3x washers)
	407-140.015	Sample table, complete
	407-A63.601	Standard nebulizer - nebulizer rate 4..7 ml/min, complete <i>ZEE nit 700: to S/N 150Z70184 usable</i> <i>novAA 400: to S/N 140V497 usable</i> <i>novAA 400 F: to S/N 140F133 usable</i> <i>novAA 310: 315/330BU to S/N 1101261 usable</i> <i>contrAA 300: to S/N 1600022 usable</i>
	407-A63.605	Standard nebulizer - nebulizer rate 4..7 ml/min, complete <i>for all AAS-units produced from January 2006</i> <i>all contrAA 300/700, ZEE nit 700P, novAA 350</i> <i>ZEE nit 700: from S/N 150Z70185 usable</i> <i>novAA 400: from S/N 140V498 usable</i> <i>novAA 400 F: from S/N 140F134 usable</i> <i>contrAA 300: from S/N 1600023 usable</i> <i>contrAA 700: from S/N 161K0335 usable</i>

Spare Parts Autosampler

AS 51 / 52

Order number	Description
 	<p>407-232.358 Waste tube Tygon (1,5 m)</p>
	<p>407-140.192 Cannula for intake tubing AS51 Pt/Rh</p>
	<p>407-232.384 Tip guide part for AS51 without cannula</p>
	<p>407-232.394 Pack of 50 pieces PP-sample cups with 18 ml</p>
	<p>407-400.052 Pack of 100 pieces sample cups - medicine, 3 ml, conical</p>

	Order number	Description
	407-232.393	Pack of 50 pieces PP- sample cups, 8 ml
	407-232.392	Sample hood for AS 51/52
	407-232.391	Sample tray 53 positions for cups with 18 ml, metal Teflon coated
	407-140.031	Set -cannula AS52 covered (for intake-and dosing tubing / Pt/Rh) incl. cannula tipguide

AS 51 s, AS 52 s

for serial number in format XX.XX.XX

	407-400.057	Pack of 100 pieces Sarstedt PP- sample cups with 15 ml
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	Order number	Description
	407-400.054	Pack of 50 pieces Sarstedt PP- sample cups with 30 ml
	407-401.827	Sample tray 49 positions for cups with 30 ml, PP corrosion resistant
	407-400.007	Sample tray 49 positions for cups with 30 ml, metal teflon coated (replacement for old autosampler)
	407-401.828	Sample tray 87 positions for cups with 15 ml, PP corrosion resistant
	407-400.043	Sample tray 87 positions for cups with 15 ml, metal teflon coated, (replacement for old autosampler)
	407-140.032	Set -cannula AS52s covered (intake and dosing tubing Pt/Rh); incl. Cannula tipguide <i>diameter: 0,5 cm</i>

AS 51 s, AS 52 s

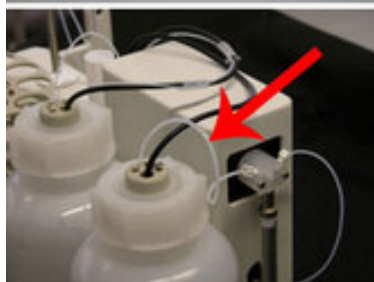
for serial number in format XXX.XXX and XXXXXXXXX









407-232.358 Waste tube Tygon (1,5 m)



407-402.599 Inlet Tube (Tube - Valve)



407-402.598 Inlet Tube (nebulizer - autosampler)

	Order number	Description
	407-140.373	Inlet Tube (nebulizer - autosampler, PTFE)
	407-402.568	Cap for glass-sample cups 22 ml, 50 pieces
	407-402.928	Lid for glass-sample cups 40 ml, 30 pieces
	407-400.354	Dosing unit 5 ml
	407-403.159	Dosing unit 5 ml <i>for AS 52s from S/N 703801 (March 2007)</i>
	407-402.567	Glass-sample cups 22 ml, 50 pieces

	Order number	Description
	407-402.927	Glass-sample cups 40 ml, 30 pieces
	407-402.600	Cannula complete with guiding AS 51S
	407-402.601	Set - cannula AS 52S complete <i>diameter: 0,53 cm</i>
	407-400.057	Pack of 100 pieces Sarstedt PP- sample cups with 15 ml
	407-400.054	Pack of 50 pieces Sarstedt PP- sample cups with 30 ml

	Order number	Description
	407-402.926	Pack of 30 pieces Sarstedt PP- sample cups with 50 ml
	407-402.602	Sample tray cover for AS 52s/51s
	407-402.880	Sample tray 30 positions, 50 ml
	407-401.827	Sample tray 49 positions for cups with 30 ml, PP corrosion resistant
	407-401.828	Sample tray 87 positions for cups with 15 ml, PP corrosion resistant

Order number	Description
	<p>407-232.379 PTFE Dosing tube (bottle valve - cannula)</p>
	<p>407-402.594 Tube fixing for autosampler arm</p>
	<p>407-400.707 Wide neck bottle 2,000 ml (with cap)</p>

other parts for Autosampler

Order number	Description
	<p>407-230.067 Wide neck bottle 750 ml</p>
	<p>407-233.912 Wide neck bottle 1,000 ml (with cap)</p>
	<p>407-400.707 Wide neck bottle 2,000 ml (with cap)</p>

Pump and Connecting Tubings

Order number	Description
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702-A63.614

Intake tubing PTFE
d = 0,5 mm; with coupler, 42 cm
(recommended for manual operating)



702-A60.536

Tubing for siphon and waste bottle; 8 x 11,2; 1,3 m



tubings SFS 5



702-A61.210

Tubing set complete (tubing + y-piece)



407-140.828

Tubing set complete Teflon (tubing + y-piece)

Order number	Description
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407-232.274

Silicon tubing; 0,5 mm x 2,1 mm (intake tubing 500 mm)



702-A61.251

Silicon tubing; 0,8 mm x 2,4 mm; 700 mm




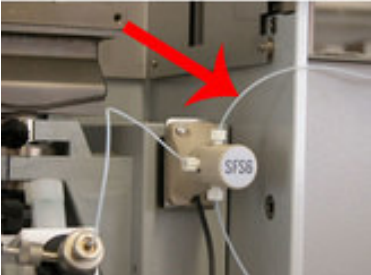
tubings SFS 6




407-140.329

Tube to nebulizer



	Order number	Description
 	407-140.328	Tube to sample or autosampler
 	407-140.327	Tube to supply bottle

Compressor

	407-232.804	Input filter / intake filter
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Order number	Description
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407-232.376 Special oil SJ27 (0.5 l)



407-232.800 Submicro filter 0.01 µm

HYDRIDE TECHNIQUE

Systeme HS 51, HS 52, HS 53, HS 55 until S/N 1190230





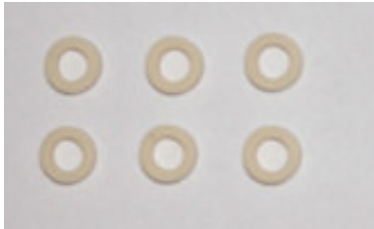
407-A65.206 Set tubing for reaction gas
(viton tubing for Hg, tygon tubing for hydride)
only for HS55

Cell unit

	Order number	Description
	702-A65.135	Drain tubing
	702-A54.012	Quartz cell without windows
	407-A65.204	Set of 2 pieces ring for quartz window
	407-A65.203	Set of 2 pieces quartz window
	407-A65.206	Set tubing for reaction gas (viton tubing for Hg, tygon tubing for hydride) <i>only for HS55</i>

Hg-Enrichment HS51 / HS 53

	702-A65.036	Collar for passing of the heating wire
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	Order number	Description
	407-A65.03X	Tube with gold collector with heating element
	407-A65.031	Set of 6 pieces O-rings for Hg-enrichment unit

Batch-Module - Accessories for the discontinuous mode HS 51 / HS 53 / HS 55 until S/N 1190230

	407-233.916	12 pieces pump tubing for reducing agent / Batch-mode, <i>Tygon, violett/violett; d = 2.06 mm; s = 0.80 mm</i>
	407-401.241	6 pieces pump tubings for reducing agent / waste <i>Ismaprene; violett/ violett; d = 2.06 mm</i> <i>HS 55: (only for HS55/HS55A)</i>
		
	407-232.656	Set O-rings for reaction beaker, 32 x 3 mm, 5 pieces

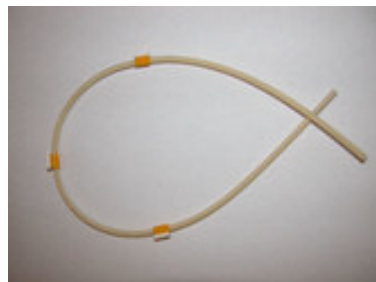
	Order number	Description
	702-A65.081	Dosing tubing PTFE, 1 x 2 mm, length 250 mm long
	702-A65.063	Dosing tip, PTFE (only for use of SnCl ₂)
	407-A65.025	Pipette tip 200 - 1,000 µl; pack of 2 x 96 pieces
	702-A65.021	1 piece PTFE reaction beaker with conical bottom, flange seal
	407-A65.022	Set O-rings for head
	407-119.012	Set pump tubings with connectors and insert- and dosing tubing

Order number	Description
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Accessories for the continuous mode HS 51 / HS 53



407-233.909 12 pieces pump tubing for waste, tygon, violet/orange/violet d = 2.54 mm



407-233.907 6 pieces pump tubing for sample
Ismaprene gelb/gelb; d = 1.42 mm; s = 0.80 mm



407-233.906 6 pieces pump tubing for acid and reducing agent NaBH4
Ismaprene orange/orange; d = 0,89 mm; s = 0,80 mm
Hydridsystem: (only for HS60/HS60A)



407-A65.066 Tube set for waste



702-A65.141 PTFE tube with screw



702-A65.140 Reactor complete

Order number	Description
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407-A65.064 Set tubing coupling (1 piece)



407-170.087 Snap-in tube cassette

gas supply



702-A60.068 Pressure tubing for Argon, 5 m



702-A65.010 Gas input for Hg

general accessories



407-A65.040 Filling for gas liquid separator (only pointed flask)

	Order number	Description
	702-A65.201	Replacement units for gas liquid separator (kaskade - new type)
	407-A65.003	Replacement units for gas liquid separator (pointed flask for foaming samples)
	702-120.019	Hg-cleaning agent 25 g
	407-233.912	Wide neck bottle 1,000 ml (with cap)
drying unit		
	702-A65.095	Separator

	Order number	Description
	407-A65.019	Drying membran with adapter for HS 51, 52, 53, 55
	407-233.865	Set of 10 pieces PTFE-collar, NS 10/19
	407-233.864	Set of 10 pieces PTFE-collar, NS 14/23
	702-A65.094	Drying vessel
	702-A65.091	U-tube
	702-A65.082	tubing viton, 5 x 8 mm, 2 m long

Order number

Description

HYDRIDE TECHNIQUE

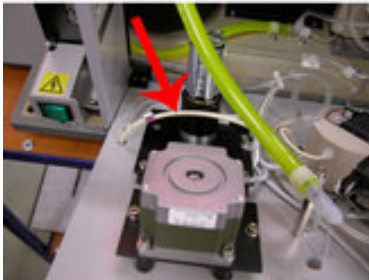
Systeme HS 60, HS 60A, HS 55 from S/N 5510100, HS 55A



407-401.241

6 pieces pump tubings for reducing agent / waste
Ismaprene; violett/ violett; d = 2.06 mm

HS 55: (only for HS55/HS55A)



407-233.906

6 pieces pump tubing for acid and reducing agent NaBH₄
Ismaprene orange/orange; d = 0,89 mm; s = 0,80 mm

Hydridsystem: (only for HS60/HS60A)



407-170.531

Waste tube


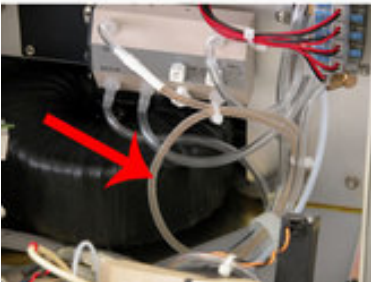





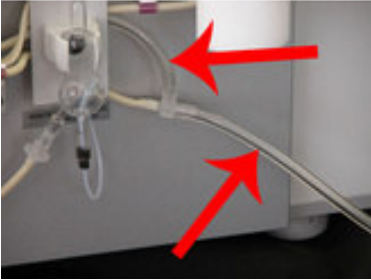

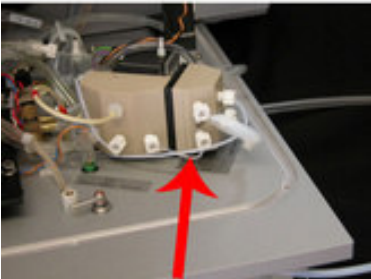

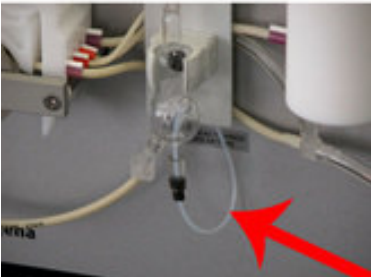
	Order number	Description
 	407-170.052	Intake Tubing for acid and reducing agent <i>MFA (complete)</i>
	407-401.984	O-ring flange
	407-232.656	Set O-rings for reaction beaker, 32 x 3 mm, 5 pieces
	407-170.590	Gas liquid separator

	Order number	Description
	407-401.734	Gas tube 3 x 5 mm, 2 m
		
	407-170.097	Amalgamation with heating unit
	810-60051-0	Hg cell (tulip)
	407-A65.025	Pipette tip 200 - 1,000 µl; pack of 2 x 96 pieces
	407-170.541	Sample aspiration hose

Order number	Description
	<p>407-170.050 Sample inlet tube <i>(sample tube, pump tube, connecting tube 2er-Ventil)</i></p> <p><i>HS 60: till S/N: 600615; 110V till S/N: 6005002</i> <i>HS 60 A: till S/N: 62A0161; 110V till S/N: 60A5003</i></p>
	<p>407-170.530 Pump/dosing tube for batch module</p>
	<p>702-A54.012 Quartz cell without windows</p>
	<p>702-A65.021 1 piece PTFE reaction beaker with conical bottom, flange seal</p>

	Order number	Description
	407-170.535	Reactor tube (Loop - MFA) 50 cm
	407-A65.204	Set of 2 pieces ring for quartz window
	407-170.001	<p>set quartz window contrAA 700, 2 pieces</p> <p>--> <i>recommended for contrAA 700</i></p> <p><i>98% transmission</i></p> <p><i>Replace article 170:001.00.</i></p>
	407-A65.203	Set of 2 pieces quartz window
	407-170.087	Snap-in tube cassette




	Order number	Description
 	407-170.536	<p>Drying tube (large)</p> <p><i>not from</i></p> <p><i>HS60A S/N 62A0162</i></p> <p><i>HS60 S/N 600616</i></p> <p><i>HS60A (110V) S/N 60A5004</i></p> <p><i>HS60 (110V) S/N 6005003</i></p> <p><i>HS 60: S/N: 600615; 110V till S/N: 6005002</i></p> <p><i>HS 60 A: till S/N: 62A0161; 110V till S/N: 60A5003</i></p>
	407-170.543	<p>Drying tube Hg - new</p>
	407-170.548	<p>Drying-membrane hydrid - new</p> <p><i>HS 60: from S/N: 600616; 110V from S/N: 6005003</i></p> <p><i>HS 60 A: from S/N: 62A0162; 110V from S/N: 60A5004</i></p>

	Order number	Description
	407-401.735	Tygon tube 1000 mm
		
	407-170.534	Connection tube 2-Valvegroup Reactor
		
	407-170.538	Connection tube Reactor-Gas-Liquid separator
		

	Order number	Description
	407-170.532	Connection tube Valvegroup Amalgamation unit
	407-170.537	Connection tube cell
		
	407-170.571	Reserve bottle reducing agent; 1,000 ml
	407-170.167	Reserve bottle acid; 1,000 ml




	Order number	Description
 	407-170.528	Pre-drying tube (short) <i>HS60A till S/N 62A0161</i> <i>HS60 till S/N 600615</i> <i>HS60A (110V) till S/N 60A5003</i> <i>HS60 (110V) till S/N 6005002</i> <i>HS 60: till S/N: 600615; 110V till S/N: 6005002</i> <i>HS 60 A: till S/N: 62A0161; 110V till S/N: 60A5003</i>
HS 50		
	407-232.656	Set O-rings for reaction beaker, 32 x 3 mm, 5 pieces
	407-170.612	Holder for Quartzcell
	407-A65.025	Pipette tip 200 - 1,000 µl; pack of 2 x 96 pieces
	702-A65.050	Quartzcell HS50

	Order number	Description
	407-170.654	Reagent bottle with lid for HS50
	702-A65.021	1 piece PTFE reaction beaker with conical bottom, flange seal
	407-170.600	Set window with ring
	407-170.651	Connection tube to Quartzcell

	Order number	Description
	407-170.529	Adapter tube MPE (HS50, HS55, HS55A, HS60, HS60A)
	407-A65.905	Gas tube MPE 50 (HS51, HS52, HS53, HS55 bis S/N 1190230)
	702-A65.006	Titan cannula

Accessories direct solid sampling

microbalance

	407-400.545	Micro spatula
	702-A60.701	Modified balance table
	407-A60.701	V24-connecting cable to AAS

	Order number	Description
spare parts solid sampler		
	407-153.018	Tweezers titan top for SSA 6
	407-153.019	Tweezers titan down for SSA 6
	407-400.850	Sample magazine for SSA 51, SSA 61/ 61z
	407-401.044	Connecting cable AAS - Solid sampler
	407-400.380	Tongs for SSA 5
	407-401.046	Tongs for SSA 6z

SSA 600

	Order number	Description
	407-402.953	Rotary plate, 42 positions <i>Please notice that the rotary plate is without position label. Please order the label with the article number 29-1100-176-10 separately.</i>
	407-900.001	Capillary hose (rinsing bottle - dispenser)
	407-900.002	Capillary hose (rinsing bottle - tubing guide)
	407-402.971	Upper tip, Graphit, 3 pieces
	407-150.920	Lower tip, 1 piece, made of titanium

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Consumables

AFS

Hg-ANALYZER mercur

Tubings



407-401.241

6 pieces pump tubing for reducing agent / waste
Ismaprene; violett/ violett; d = 2.06 mm



407-233.906

6 pieces pump tubing for acid and reducing agent NaBH₄
Ismaprene orange/orange; d = 0,89 mm; s = 0,80 mm
mercur: (SnCl₂)








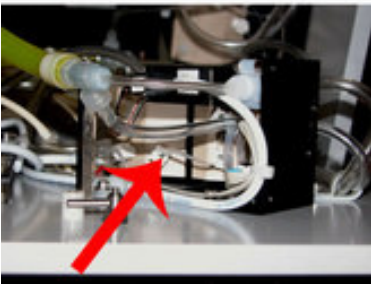
407-170.054

Waste tubing, complete



	Order number	Description
	407-170.055	Waste tubing onto the outlet nozzle
	407-170.060	Insert tubing for acid and reducing agent (MFA with female screw)
	407-401.734	Gas tube 3 x 5 mm, 2 m

	Order number	Description
	407-170.064	Cell tubing (from 4-valve group to the cell)
	407-170.541	Sample aspiration hose
	407-170.050	Sample inlet tube (sample tube, pump tube, connecting tube 2er-Ventil)
	407-170.057	Reactor and connector tubing, 25 cm incl. connectors (reactor loop)

	Order number	Description
	407-170.535	Reactor tube (Loop - MFA) 50 cm
	407-170.114	Tubing set consist of: <ul style="list-style-type: none"> - Sample tubing - Pump tubing for acid and reducing agent, pack of 6 pieces - Pump tubing for waste, pack of 6 pieces - Connector tubing from reactor to GLS - Reactor and connector/ tubing - Connection tubing from reactor to double valve group - insert tubing for acid and reducing agent
	407-170.058	Connector tubing from reactor to GLS
		
	407-170.056	Connection tubing from reactor to double valve group
		

Order number	Description
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407-170.066

Connection tubing between 4-valve group and gold collector, short



407-170.068

Connection tubing between 4-valve group and gold collector, long



Replacement units



170:136.11

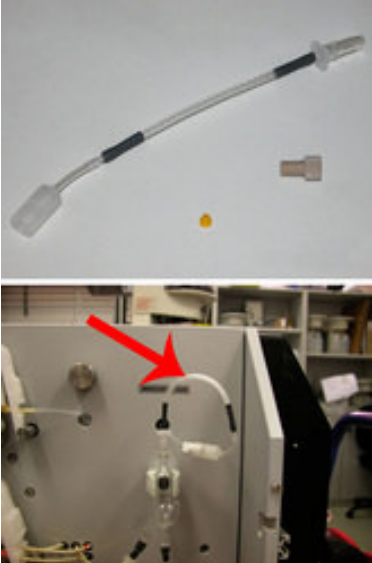
activated carbon filter for gas outlet



407-170.196

Activated Carbon Filter for inlet gas

	Order number	Description
	407-170.240	Gas-liquid separator
	407-170.097	Amalgamation with heating unit
	407-401.502	Hg-low pressure lamp
	407-170.087	Snap-in tube cassette
	407-170.063	Drying membrane
		


Order number	Description
	<p>407-170.067</p> <p>Predrying membran (between GLS and bubble sensor)</p>

Consumables



407-140.040 Waste bottle


	Order number	Description
	407-170.052	Intake Tubing for acid and reducing agent <i>MFA (complete)</i>
	407-170.088	Cleaning wire
	407-401.072	Fuse type for 110 V (T6, 3 A/H)
	407-401.973	Fuse type for 230 V (T3, 15 A/H)
	407-170.089	Storage bottle reducing agent; 1,000 ml

	Order number	Description
	407-170.167	Reserve bottle acid; 1,000 ml

Spare Parts Autosampler



AS 51 / 52


	407-140.192	Cannula for intake tubing AS51 Pt/Rh
	407-232.394	Pack of 50 pieces PP-sample cups with 18 ml
	407-400.052	Pack of 100 pieces sample cups - medicine, 3 ml, conical
	407-232.393	Pack of 50 pieces PP- sample cups, 8 ml

	Order number	Description
	407-232.392	Sample hood for AS 51/52
	407-232.391	Sample tray 53 positions for cups with 18 ml, metal Teflon coated
	407-140.031	Set -cannula AS52 covered (for intake-and dosing tubing / Pt/Rh) incl. cannula tipguide

AS 51 s, AS 52 s

for serial numbers in format XX.XX.XX

	407-232.384	Tip guide part for AS51 without cannula
	407-400.057	Pack of 100 pieces Sarstedt PP- sample cups with 15 ml

	Order number	Description
	407-400.054	Pack of 50 pieces Sarstedt PP- sample cups with 30 ml
	407-401.827	Sample tray 49 positions for cups with 30 ml, PP corrosion resistant
	407-400.007	Sample tray 49 positions for cups with 30 ml, metal teflon coated (replacement for old autosampler)
	407-401.828	Sample tray 87 positions for cups with 15 ml, PP corrosion resistant
	407-400.043	Sample tray 87 positions for cups with 15 ml, metal teflon coated, (replacement for old autosampler)
	407-140.032	Set -cannula AS52s covered (intake and dosing tubing Pt/Rh); incl. Cannula tipguide <i>diameter: 0,5 cm</i>

Order number	Description
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AS 51 s, AS 52 s

for serial numbers in format XXX.XXX



407-232.358

Waste tube Tygon (1,5 m)



407-402.568

Cap for glass-sample cups 22 ml, 50 pieces



407-402.928

Lid for glass-sample cups 40 ml, 30 pieces








407-400.354

Dosing unit 5 ml



407-403.159

Dosing unit 5 ml
for AS 52s from S/N 703801 (March 2007)

Order number	Description
	<p>407-402.567 Glass-sample cups 22 ml, 50 pieces</p>
	<p>407-402.927 Glass-sample cups 40 ml, 30 pieces</p>
	<p>407-403.227 Glass-Sample cups with lid, 12 ml, 50 pieces for AS51s/52s (<i>mercur</i>)</p>
	<p>407-402.600 Cannula complete with guiding AS 51S</p>
	<p>407-402.601 Set - cannula AS 52S complete <i>diameter: 0,53 cm</i></p>

	Order number	Description
	407-400.057	Pack of 100 pieces Sarstedt PP- sample cups with 15 ml
	407-400.054	Pack of 50 pieces Sarstedt PP- sample cups with 30 ml
	407-402.602	Sample tray cover for AS 52s/51s
	407-402.880	Sample tray 30 positions, 50 ml
	407-401.827	Sample tray 49 positions for cups with 30 ml, PP corrosion resistant

	Order number	Description
	407-401.828	Sample tray 87 positions for cups with 15 ml, PP corrosion resistant
	407-232.379	PTFE Dosing tube (bottle valve - cannula)
		
	407-402.594	Tube fixing for autosampler arm
	407-400.707	Wide neck bottle 2,000 ml (with cap)

other parts for Autosampler

	Order number	Description
	407-230.067	Wide neck bottle 750 ml
	407-233.912	Wide neck bottle 1,000 ml (with cap)

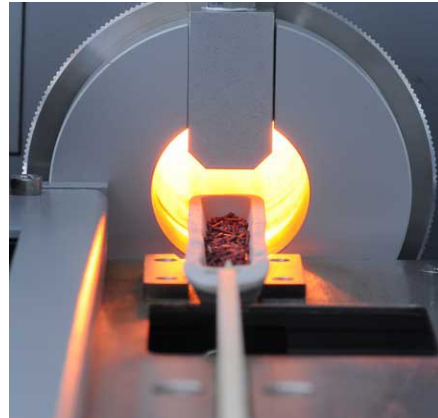
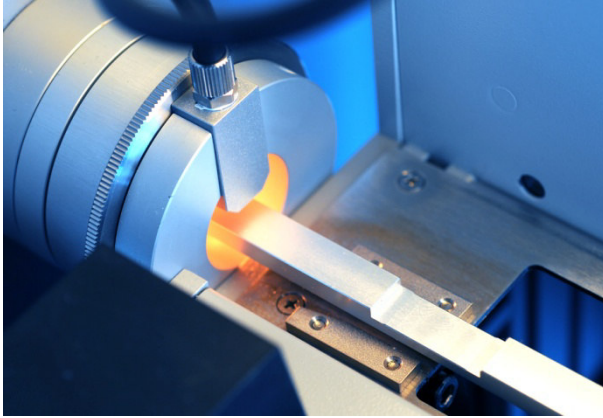
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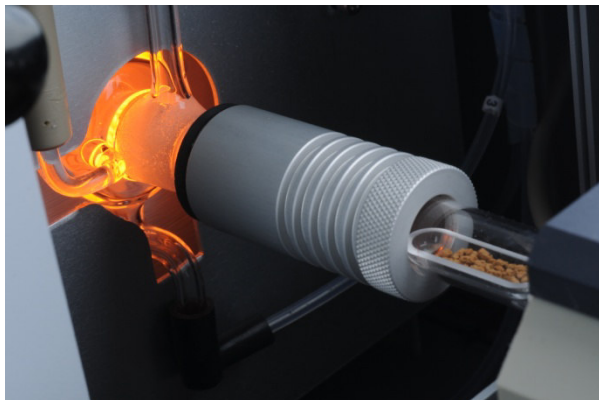
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Catalogue CONSUMABLES

Elemental Analysis



Elemental analyzers

multi EA[®] 4000

multi EA[®] 5000



Please choose your Consumables list.

Consumables multi EA 4000

Order number	Description
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multi EA 4000 CONSUMABLES



402-888.030

Ceramic holder for manual boat drive



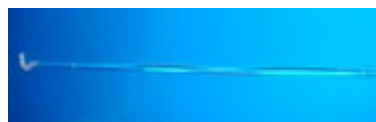
402-889.705

Ceramic hook short, 350 mm, for autosampler FPG 48



402-889.721

Ceramic hook long, 600 mm for FPG 48V and FPG 48 in combination with TIC "automatic"



402-888.029

Quartz glass holder for manual boat drive



402-825.044

Quartz wool, 1 packet



402-886.005

Connecting hose "oxygen supply" for HT furnace, 4 mm x 6 mm, 2 m long

multi EA 4000 CS CONSUMABLES



402-886.112

Adaptor for drying tube TIC solid module; GL 45; D = 6,00 mm

	Order number	Description
	402-886.111	Adaptor for drying tube with angle connector, GL 45, D = 6 mm
	402-886.131	Calcium carbonat, standard, 100 g
	402-886.010	Gasket for oxygen lock CS (34 mm x 3 mm)
	402-886.322	Halogen absorber filling (conditioned) <i>for U-tube, o.d. = 21 mm, set of 5 pieces</i>
	402-886.312	Halogen absorber filling for U-tube, o.d. = 21 mm (conditioned)
	402-881.213	Headline-Disposable-In-Line-Filter, box of 10 pieces

	Order number	Description
	402-886.014	Ceramic combustion tube
	402-815.136	Screw joint, lab type, GL 18 (for U-tube, o.d. = 21 mm)
	402-886.172	O-ring for adaptor for drying tube (32 mm x 3 mm)
	402-886.118	Porcelain boat (white); 1,000 pieces
	402-888.031	Oxygen lance for lock CS (stainless steel)
	402-888.020	Special gasket dust trap 35 mm x 41 mm (furnace with sidewise sample feeding)

	Order number	Description
	402-888.070	TIC-head for TIC solid module (glass part only)
	402-886.116	Drying agent <i>DANGEROUS GOODS!</i>
	402-886.129	Drying tube with GL 45 (without connectors)
	402-881.013	U-tube, o.d. = 21 mm for halogen absorber
multi EA 4000 CI CONSUMABLES		
	402-810.031	Adsorbent, bottle of 30 ml


	Order number	Description
	402-888.007	Gasket for lock (30 mm x 5 mm)
	402-825.041	Fork-type clamp KS 13/2 with clamping screw
	402-881.203	Glass tube, straight, without connectors, with thread
	402-810.050	Halogen absorber filling (copper- and brass wool)
	402-880.211	Combination electrode (ceramic)



	Order number	Description
	402-815.059	Screw joint, lab type, D4/6 - GL14 <i>(for adsorbent tube)</i>
	402-815.149	O-Ring 52x3 mm EPDM <i>Sealing ring for cell cover of chlorine cells "sensitive" and "high concentration"</i>
	402-889.714	Quartzboat, 10 pieces
	402-888.006	H2SO4 vessel (with split outlet)
	402-888.002	H2SO4 vessel (without split outlet)

	Order number	Description
	402-888.018	Safety vessel
	402-880.213	Stopper for coulometer cell lid (connecting aspiration hose)
	402-889.626	Stopper, small, for coulometer cell
	402-888.003	Stopper for H ₂ SO ₄ vessel (for 402-888.002 and 402-888.006)



	Order number	Description
	402-825.150	U-tube, o.d. = 11 mm, without filling for halogenabsorber (without connections)
	402-888.016	Connecting hose for CI module (drying vessel/coulometer cell, transparent)
	402-888.001	Furnace tube quartz glass
	402-888.015	Hose VITON (black) (Connection safety vessel/halogen trap)

TIC Solids Module „automatic“ CONSUMABLES

	402-886.312	Halogen absorber filling for U-tube, o.d. = 21 mm (conditioned)
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	Order number	Description
	402-950.018	Ceramic combustion tube for TIC automatic
	402-889.721	Ceramic hook long, 600 mm for FPG 48V and FPG 48 in combination with TIC "automatic"
	402-889.724	Ceramic needle
	402-889.720	Condensation vessel
	402-889.719	Condensation coil

	Order number	Description
	402-815.114	O-ring Viton 32 x 3
	402-884.005	Pump hose for peristaltic pump, waste
	402-889.067	Quartz sand 10 g
	402-825.044	Quartz wool, 1 packet
	402-889.723	Hose for acid pump
	402-889.722	Tubing kit

	Order number	Description
	402-889.725	Screw connection ceramic needle
	402-889.718	TIC reactor
	402-886.116	Drying agent <i>DANGEROUS GOODS!</i>

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Consumables multi EA 5000

Order number	Description
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Consumables general



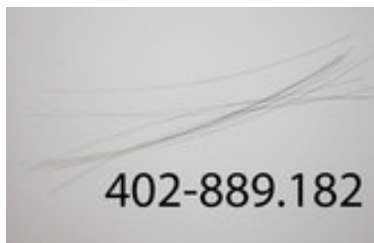
402-889.527 Auto-Protection valve assembly, complete with Bypass



402-889.091 Lids for sample vials, 2 ml, set of 500 pieces



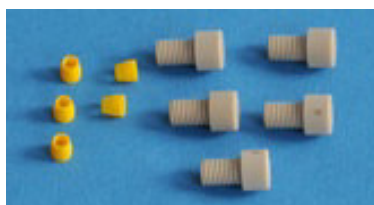
402-889.652 Flow test kit



402-889.182 Wires for cleaning syringe needles, set of 10 pieces



402-007.513 FAST Connector, black, angled, 1 piece
for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm



402-881.028 Finger-Tight-Set, 1/8" for tubing, 5 ferrules and 5 screwing

	Order number	Description
	402-801.317	Fuse for furnace unit <i>T 10 A H, 20 mm</i>
	402-889.481	glass rod
	402-820.044	Air filter for membrane dryer pump (at rear side of multi EA 5000), 1 piece
	402-889.510	Multi purpose combustion tube
	402-825.045	Tweezers, straight, truncated
	402-889.092	Sample vials, 2 ml, set of 100 pieces <i>(for sample rack with 112 positions)</i>
	402-889.558	PTFE filter plate, d = 25 mm (Auto protection replacement filter) <i>Set of 5 pieces</i> <i>Replace article 402-815.027.</i>

	Order number	Description
	402-825.044	Quartz wool, 1 packet
	402-820.129	Oxygen and argon gas supply tubing <i>FEP, OD 6 mm (sold by meter), 1 m</i> <i>Replaced article 402-815.066</i>
	402-950.028	Tubing kit EA 5000
	402-889.306	Screw cap with hole, GL 18
	402-889.557	Sealing disk, 17 mm, for plastic cap GL 18 resp. for waste vessel of sampler, set of 5 pieces
	402-889.583	Special sealing 12 mm <i>(FAST connector at outlet of multi purpose combustion tube)</i>

Order number	Description
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402-822.118 Heat resistant gloves, 1 pair

Sampling modules

MMS 5000



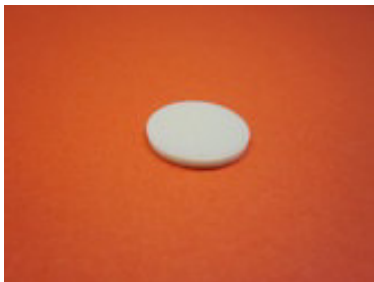




402-812.374 Replacement screw
(mounting of autosampler on the basic unit/ ABD)




402-823.079 Removable needles for 50 and 100 µl syringes, set of 3 pieces



402-886.248 Waste hose

	Order number	Description
	402-889.206	Septum for rinsing vessel
	402-889.533	Syringe 50 µl, with removable needle, without markings
	402-889.534	Syringe 100 µl, with removable needle, without markings
	402-889.547	Gripper for sample boats
	402-889.557	Sealing disk, 17 mm, for plastic cap GL 18 resp. for waste vessel of sampler, set of 5 pieces

Autoinjector

	402-889.589	<p>Syringe 10 µl, for Autoinjector, with removable needle</p> <p><i>recommended for higher element concentrations and systems with carbon module</i></p>
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Order number	Description
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402-889.592 Syringe 100 µl, for Autoinjector, with removable needle
recommended as standard syringe for CI systems



402-889.590 Syringe 20 µl, for Autoinjector, with removable needle
recommended for higher element concentrations, for systems with carbon module and for systems with only one detector module (N or S)



402-889.591 Syringe 40 µl, for Autoinjector, with removable needle
recommended as standard syringe for N/S systems



402-889.186 Removable special needles, set of 3 pieces





Manual Boat Drive - MBD



402-815.839 Sealing for sample port MBD


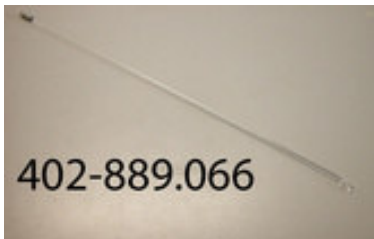










402-889.671 Feed tube for MBD

	Order number	Description
	402-889.672	Hook for MBD
	402-889.670	MBD coupling tube, glass
	402-889.674	Quartz boat, 40 mm x 9 mm, set of 10 pieces
	402-889.560	Set of sealing elements horizontal


Automatic boat drive - ABD

	402-889.551	ABD coupling tube, glass
	402-886.236	Sealing for sample port ABD




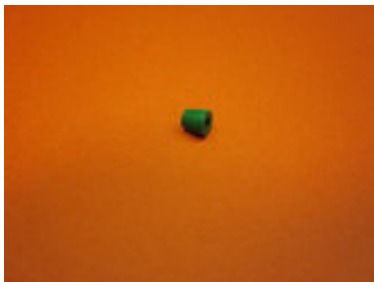


	Order number	Description
	402-889.073	Feed tube, for MVS shunt/ABD
	402-889.066	Hook, for MVS shunt/ABD <i>suitable from MVS serial number 509 046 and higher</i>
	402-823.042	hand dosing syringe 100 µl <i>with exchangeable canula, graduated</i>
	402-815.838	O-ring 14 mm x 4 mm for ABD
	402-889.674	Quartz boat, 40 mm x 9 mm, set of 10 pieces
	402-889.560	Set of sealing elements horizontal
	402-889.050	Septum; 12.5 mm; set of 5 pieces







	Order number	Description
	402-889.673	Sample boat, special, with downholder for special applications (e.g. AOX by batch method, EC/OC determination), 10 pieces
	402-889.039	Adsorption material, set of 3 pieces
	402-823.079	Removable needles for 50 and 100 µl syringes, set of 3 pieces

Gas Sampling System - GSS




	402-889.148	Replacement septum for gas sampling bag 10 l, 1 piece
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	Order number	Description
	402-820.057	Ferrule 1/16", 1 piece <i>multi EA 5000: Ferrule for special needle (PEEK), horizontal operation, 1 piece</i>
	402-820.123	Ferrule for injection needle, vertical operation, 1 piece
	402-889.147	Gas sampling bag 10 l for GSS and GSS type C, 1 piece
	402-889.180	Injection head for GSS, LPG and GSS/LPG, vertical operation, complete
	402-823.144	Needle 0.63 mm x 0.35 mm; c81 <i>removeable injection needle for vertical operation mode</i>
	402-890.017	LPG/GSS horizontal upgrade kit
	402-889.443	Septum perforated for special needle PEEK <i>in horizontal operation mode</i>

	Order number	Description
	402-890.018	Special needle for GSS, LPG and GSS/LPG, horizontal operation mode, PEEK
LPG Module and GSS/LPG combi module		
	402-889.439	Bubble vessel
	402-820.057	Ferrule 1/16", 1 piece <i>multi EA 5000: Ferrule for special needle (PEEK), horizontal operation, 1 piece</i>
	402-820.123	Ferrule for injection needle, vertical operation, 1 piece
	402-889.180	Injection head for GSS, LPG and GSS/LPG, vertical operation, complete
	402-823.144	Needle 0.63 mm x 0.35 mm; c81 <i>removeable injection needle for vertical operation mode</i>

	Order number	Description
	402-890.017	LPG/GSS horizontal upgrade kit
	402-815.058	Lab-type screw joint D 3.2 - GL 14, complete (red) <i>multi EA 5000: for bubble vessel</i>
	402-881.116	O-ring, i.d. = 6 mm x 3 mm <i>multi EA 5000: for screw cap GL 14 bubble vessel</i>
	402-889.444	particle filter
	402-889.443	Septum perforated for special needle PEEK <i>in horizontal operation mode</i>
	402-890.018	Special needle for GSS, LPG and GSS/LPG, horizontal operation mode, PEEK

Detection

	Order number	Description
Sulfur / nitrogen / carbon detection		
	402-820.110	Connecting hose 1/8", (sold by meter), 1m
	402-889.061	Extended Sulfur Calibration Kit; 0,05 - 10 mg/l <i>multi EA 5000: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.077	Extended Sulfur Calibration Kit; 1 - 50 mg/l <i>Especially for the calibration of systems with LPG and GSS/LPG- combined modules.</i> <i>multi EA 5000: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.076	Extended Nitrogen Calibration Kit; 0.05 - 25 mg/l, incl. blank <i>replaced 402-889.060</i> <i>multi EA 5000: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.070	Sulfur Calibration Kit (0.1 - 10 mg/l) incl. blank <i>multi EA 5000 N/S: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.167	Sulfur Calibration Kit (10 - 100 mg/l) incl. blank <i>multi EA 5000 N/S: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>

	Order number	Description
	402-889.164	Sulfur Calibration Kit (100 - 500 mg/l) <i>multi EA 5000 N/S: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.075	Nitrogen Calibration Kit (0.10 - 25 mg/l) incl. blank <i>replaced 402-889.069</i> <i>multi EA 5000 N/S: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.165	Nitrogen Calibration Kit (10 - 100 mg/l) incl. blank <i>multi EA 5000 N/S: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.162	Nitrogen Calibration Kit (100 - 500 mg/l) <i>multi EA 5000 N/S: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.753	Membrane dryer 48" for multi EA 5000
	402-889.754	O-ring Viton Diameter 3,2x1,8 <i>for membrane dryer 48" for multi EA 5000</i>

TS with UVFD Type APSA 370

Order number	Description
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402-889.161 Absorber filling for bypass UVF/CLD



402-889.137 Sample filter UVF/CLD, Set á 24 pieces

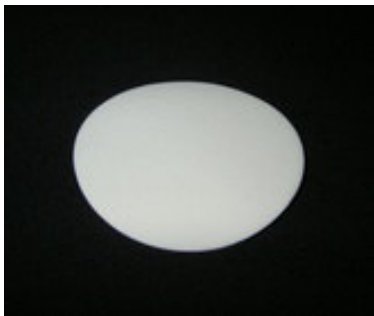






402-889.143 Xenon lamp UVF






TN with CLD Type APNA 370



402-889.161 Absorber filling for bypass UVF/CLD

	Order number	Description
	402-889.137	Sample filter UVF/CLD, Set á 24 pieces
TN with CLD Type CLD-5000		
	402-950.027	adsorber unit CLD
TS with Coulometer		
	402-889.313	Absorber tube for Sulfur coulometer, glass
	402-889.302	Anode with Diaphragma (module)
	402-889.308	Sealing for screw cap with hole, GL 32, Sulfur coulometer

	Order number	Description
	402-889.309	Sealing for screw cap with hole, GL 14, Sulfur coulometer
	402-889.307	Sealing for screw cap with hole, GL 18, Sulfur coulometer
	402-889.311	Gas introduction tube for titration cell of Sulfur coulometer, glass
	402-520.137	Glass screw joint (gray) <i>multi EA 5000: (Screw joint for tube 8 mm)</i>
	402-889.301	Indicator electrode for titration cell of Sulfur coulometer
	402-889.303	Cathode for titration cell of Sulfur coulometer

	Order number	Description
	402-889.310	Stirrer bar, titration cell, Sulfur coulometer
	402-884.015	Packet with one charge of silver wool
	402-889.305	Screw cap with hole, GL 14 for gas introduction tube and electrodes, Sulfur coulometer
	402-889.306	Screw cap with hole, GL 18
	402-889.304	Screw cap with hole, GL 32 Diaphragma, Sulfur coulometer

Order number	Description
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402-889.314 Septa for titration cell for Sulfur coulometer, set a 50 pieces



402-889.300 Titration cell for Sulfur coulometer, glass



402-889.312 Fitting GL 14, for absorber tube, sulfur coulometer

TC/TOC-Module






402-815.138 Dosing syringe for phosphoric acid, 5 ml







402-007.884 FAST Connector, black, straight, 1 piece






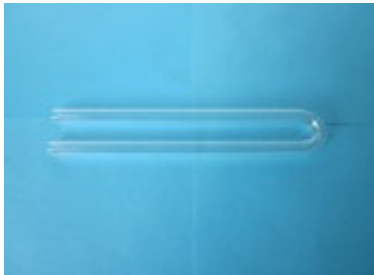
for tubings, glass, metal and plastic parts, for diameters 3,2 mm; 6 mm and 12 mm



Order number	Description
	<p>402-007.508 FAST Connector, black, straight, 1 piece</p> <p><i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm</i></p>
	<p>402-007.513 FAST Connector, black, angled, 1 piece</p> <p><i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm</i></p>
	<p>402-520.137 Glass screw joint (gray)</p> <p><i>multi EA 5000: (Screw joint for tube 8 mm)</i></p>
	<p>402-886.311 Syringe graduated 500 µl with removable needle for manual injection</p>
	<p>402-885.019 Halogen absorber, complete with U-tube</p>

Order number	Description
	<p>402-810.050 Halogen absorber filling (copper- and brass wool)</p>
	<p>402-885.017 High-temperature mat, set of 6 pieces</p>
	<p>402-890.113 Needle with luer connector for H3PO4-syringe</p>

	Order number	Description
	402-823.056	Needle; 0.63 mm x 0.35 mm; for all types of syringes; set of 3 pieces <i>multi EA 5000: removeable injection needle for vertical operation mode</i>
	402-889.657	Condensation coil
	402-810.048	Special catalyst platinum, approx. 17 ml
	402-810.059	Special catalyst platinum, approx. 80 ml

	Order number	Description
	402-886.318	Sample vials, 8 ml <i>50 mm x 18 mm, 100 pieces</i>
	402-884.005	Pump hose for peristaltic pump, waste
	402-881.006	Quartz glass cullet, coarse grains, packet of 80 g
	402-825.044	Quartz wool, 1 packet
	402-889.659	Septum TIC vessel





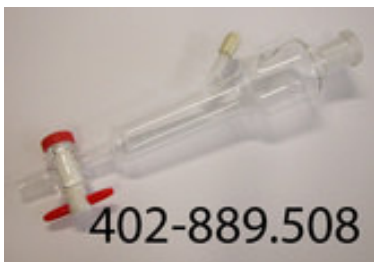

	Order number	Description
	402-889.658	Septum combustion tube
	402-881.245	Set of TC prefilter and water trap
	402-889.673	Sample boat, special, with downholder for special applications <i>(e.g. AOX by batch method, EC/OC determination), 10 pieces</i>
	402-889.594	Syringe 250 µl with vent and removable needle <i>(for autosampler)</i>
	402-889.593	Syringe 500 µl with vent and removable needle <i>(for autosampler)</i>
	402-889.656	TIC vessel
	402-825.150	U-tube, o.d. = 11 mm, without filling for halogenabsorber <i>(without connections)</i>




	Order number	Description
	402-889.655	Combustion tube
	402-889.597	combustion tube for diesel exhaust particulates multi EA 5000

Chlorine Detection



	402-815.831	Hose to connect suction extractor at workplace or vent <i>length 70 cm</i>
	402-889.549	Connecting part (metal) for gas transfer line <i>with outside thread</i>
	402-825.123	Beaker for sulfuric acid vessel
	402-889.561	Replacement hose for heated gas transfer line

	Order number	Description
	402-820.053	Ferrule for connecting part (metal) <i>for gas transfer line with outside thread</i>
	402-820.055	Ferrule for screw joint <i>gas transfer line with inside thread</i>
	402-889.559	Gas transfer hose
	402-889.071	Chlorine Calibration Kit (0.1 - 10 mg/l) incl. blank <i>multi EA 5000 Cl: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.166	Chlorine Calibration Kit (10 - 100 mg/l) incl. blank <i>multi EA 5000 Cl: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>
	402-889.163	Chlorine Calibration Kit (100 - 500 mg/l) <i>multi EA 5000 Cl: all calibration kits available with AJ certificate of analysis - surcharge 200 EUR /Kit</i>

	Order number	Description
	402-520.177	Ferrule set, 1/4" PTFE
	402-30003	Ferrule set, 1/8" PTFE
	402-825.124	Petri dish for sulfuric acid vessel
	402-889.569	Tubing inside sulfuric acid vessel with ferrule
	402-889.508	Sulfuric acid vessel with outlet
	402-889.507	Safety cowl for the sulfuric acid tank


	Order number	Description
	402-825.108	Funnel for sulfuric acid vessel
	402-889.573	Connector sulfuric acid vessel
	402-30031	Swagelok screw fitting, 1/4" onto 1/8", PTFE

Chlorine detection with chlorine module high sensitive

	402-890.007	Storage vessel for sensor electrode
	402-889.085	Mounting to connect suction extractor at workplace, NS 14.5 brown glass



	Order number	Description
	402-99998	Preamplifier for sensor electrode
	402-889.123	Gas introduction tube
	402-889.124	Set of rubber plugs; 1 x NS14, 1 x NS7
	402-889.112	Internal electrolyte sensor electrode, 50 ml
	402-815.023	Magnetic stirring bar, PTFE, 30 mm x 6 mm, 1 piece

	Order number	Description
	402-889.006	Platinum electrode
	402-889.184	Electrolyte bridge
	402-889.110	Salt solution to make up 100 ml electrolyte
	402-889.002	Sensor electrode
	402-950.025	septum platinum electrode, punched

	Order number	Description
	402-889.536	Silver electrode

Chlorine detection with titration cells sensitive and high concentration

	402-880.605	Disposable tube 18 mm x 6 mm, filled <i>packet of 10 pieces, for AOX determination (column method)</i>
	402-880.610	Disposable tube 18 mm x 6 mm, filled <i>packet of 100 pieces, for AOX determination (column method)</i>
	402-880.211	Combination electrode (ceramic)
	402-815.022	Magnetic stirring bar, PTFE, 15 mm x 6 mm, 1 piece

	Order number	Description
	402-815.149	O-Ring 52x3 mm EPDM <i>Sealing ring for cell cover of chlorine cells "sensitive" and "high concentration"</i>
	402-889.673	Sample boat, special, with downholder for special applications <i>(e.g. AOX by batch method, EC/OC determination), 10 pieces</i>

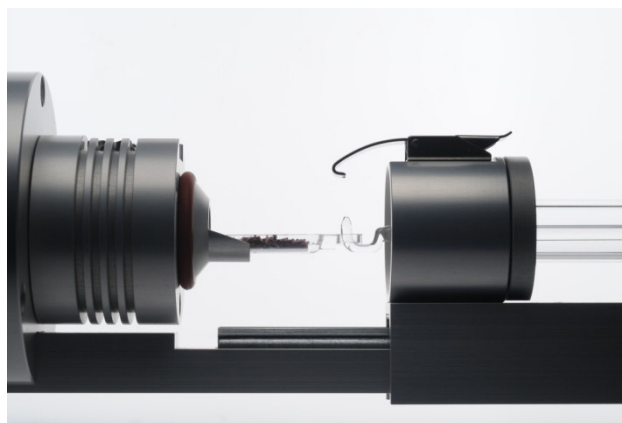
Back to start

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Specifications and order numbers are subject to changes due to further technical development.

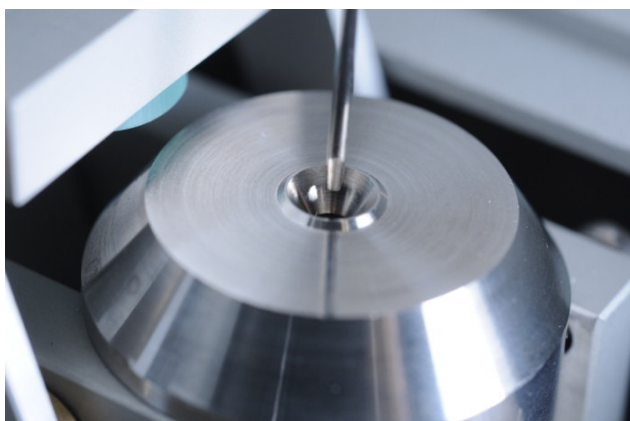
Prices are quoted exclusive of value added tax.

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Catalogue CONSUMABLES

Sum Parameters



Sum parameter analyzers

multi X[®] 2500

multi N/C[®] 2100

multi N/C[®] 3100

multi N/C[®] pharma HT

multi N/C[®] pharma UV

multi N/C[®] UV HS



Please choose your Consumables list.






Consumables

AOX multi X 2500







	Order number	Description
Common		
	402-880.212	Filling device for activated carbon, 20 mg (<i>slurry method</i>)
	402-880.114	Filling device for activated carbon, 50 mg (<i>column method, batch method</i>)
	402-810.004	Activated carbon for AOX analysis (<i>column method</i>), packet of 10 g
	402-810.025	Activated carbon for AOX analysis (<i>batch method</i>), packet of 10 g
	402-889.652	Flow test kit
	402-815.101	Gasket for lid of coulometer cell, small

	Order number	Description
	402-889.615	Duplex column for quartz containers 18 mm x 6 mm, 1 piece
	402-880.605	Disposable tube 18 mm x 6 mm, filled <i>packet of 10 pieces, for AOX determination (column method)</i>
	402-880.610	Disposable tube 18 mm x 6 mm, filled <i>packet of 100 pieces, for AOX determination (column method)</i>
	402-007.513	FAST Connector, black, angled, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm</i>
	402-825.041	Fork-type clamp KS 13/2 with clamping screw




	Order number	Description
	402-801.317	Fuse for furnace unit <i>T 10 A H, 20 mm</i>
	402-825.004	Ceramic wool for AOX analysis (mat)
	402-880.211	Combination electrode (ceramic)
	402-520.136	Luer cone for column head
	402-880.019	Rack for filling quartz containers (18 mm x 6 mm and 18 mm x 8 mm)
	402-815.022	Magnetic stirring bar, PTFE, 15 mm x 6 mm, 1 piece

	Order number	Description
	402-815.035	Polycarbonate membrane filter, set of 100 pieces
	402-815.030	O-ring 3.0 mm x 1.5 mm (3 mm x 6 mm) set of 10 pieces <i>multi X 2500: for duplex and triplex columns (for quartz containers 18 mm x 6 mm)</i>
	402-815.149	O-Ring 52x3 mm EPDM <i>Sealing ring for cell cover of chlorine cells "sensitive" and "high concentration"</i>
	402-825.045	Tweezers, straight, truncated
	402-889.645	Quartz container, 18 mm x 8 mm (thin-walled), with frit <i>Set of 20 pieces, for batch method with AFU3</i>
	402-880.009	Quartz container, 18 mm x 6 mm, set of 20 pieces <i>for AOX analysis according to the column method</i>

	Order number	Description
	402-825.044	Quartz wool, 1 packet
	402-820.129	Oxygen and argon gas supply tubing <i>FEP, OD 6 mm (sold by meter), 1 m</i> <i>Replaced article 402-815.066</i>
	402-822.118	Heat resistant gloves, 1 pair
	402-889.616	Triplex column for 3 quartz container, 18 x 6, 1 piece
multi X 2500 - Vertical operation mode		
	402-810.031	Adsorbent, bottle of 30 ml




	Order number	Description
	402-950.022	Adsorption tube with FAST-Connector, without thread
	402-881.203	Glass tube, straight, without connectors, with thread <i>multi X 2500: for adsorbent</i>
	402-880.502	Ball-joint adapter KS13 for sulfuric acid vessel
	402-815.058	Lab-type screw joint D 3.2 - GL 14, complete (red)
	402-815.059	Screw joint, lab type, D4/6 - GL14 <i>(for adsorbent tube)</i>
	402-889.596	quartz crucible

	Order number	Description
	402-889.627	Oxygen lock (oven head for column method)
	402-889.612	Sulfuric acid vessel (20 ml), vertical
	402-950.020	Sulfuric acid vessel (40 ml), vertical
	402-880.213	Stopper for coulometer cell lid (connecting aspiration hose)
	402-889.626	Stopper, small, for coulometer cell
	402-889.613	Connecting hose, drying vessel/coulometer cell, PFA <i>external diameter ca. 3 mm (thin)</i>
	402-815.033	Connecting hose, drying vessel/coulometer cell, tygon, <i>external diameter ca. 8 mm (thick)</i>






	Order number	Description
	402-889.614	Connecting hose, connection between coulometer cell and pump
	402-889.606	Combustion tube, vertical (AOX and POX)
	402-889.665	Lock for pre-combustion <i>glasspart only</i>

multi X 2500 - Horizontal operation mode

	402-815.831	Hose to connect suction extractor at workplace or vent <i>length 70 cm</i>
	402-889.549	Connecting part (metal) for gas transfer line <i>with outside thread</i>
	402-889.527	Auto-Protection valve assembly, complete with Bypass

	Order number	Description
 <p>402-825.123</p>	402-825.123	Beaker for sulfuric acid vessel
	402-889.561	Replacement hose for heated gas transfer line
	402-820.057	Ferrule 1/16", 1 piece
	402-820.053	Ferrule for connecting part (metal) <i>for gas transfer line with outside thread</i>
	402-820.055	Ferrule for screw joint <i>gas transfer line with inside thread</i>
	402-889.559	Gas transfer hose

	Order number	Description
	402-520.177	Ferrule set, 1/4" PTFE
	402-30003	Ferrule set, 1/8" PTFE
	402-889.510	Multi purpose combustion tube <i>multi X 2500: For AOX and TX determination in horizontal mode, also for EOX determination in vertical and horizontal mode.</i>
	402-825.124	Petri dish for sulfuric acid vessel
	402-889.558	PTFE filter plate, d = 25 mm (Auto protection replacement filter) <i>Set of 5 pieces</i> <i>Replace article 402-815.027.</i>
	402-889.569	Tubing inside sulfuric acid vessel with ferrule

	Order number	Description
 <p>402-889.508</p>	402-889.508	Sulfuric acid vessel with outlet
	402-889.507	Safety cowl for the sulfuric acid tank
	402-889.583	Special sealing 12 mm (FAST connector at outlet of multi purpose combustion tube)
	402-825.108	Funnel for sulfuric acid vessel
	402-889.573	Connector sulfuric acid vessel

Order number	Description
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402-30031

Swagelok screw fitting, 1/4" onto 1/8", PTFE

Sample Preparation Systems AOX

APU 2



402-820.124

3/2-Wayvalve-unit



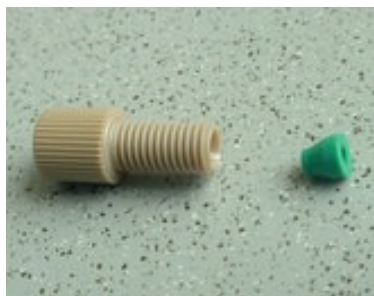
402-880.751

Collecting dish







402-815.029

Disposable syringe, 60 ml, suitable for syringe pump Type Harvard
AP3, AP2A, AP2P and APU 2









402-880.750






Finger-Tight-Set, 2 mm (hose to syringe)


	Order number	Description
	402-880.357	Hose for wash solution, (for 3/2-Wayvalve-unit)
	402-815.109	Luer connection (male), 1 piece
	402-880.355	Set Sample aspiration line, complete with connectors <i>2 pieces (for 3/2-Wayvalve-unit)</i>
	402-880.356	Connecting hose, valve/syringe, complete, (for 3/2-Wayvalve-unit)


APU 28 systems






	402-825.126	Aluminium circular blanks, 30 pieces
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	Order number	Description
	402-889.628	Aspiration tube
	402-889.629	Aspiration tube, complete with screw joint
	402-825.125	Cap closed, 1 piece
	402-889.619	Caps with hole, 10 pieces
	402-820.067	Ferrule, 2 mm red, for aspiration tube
	402-889.631	sealing cone, complete

	Order number	Description
	402-007.988	FAST Connector, black, straight, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 1,6 mm; 3,2 mm; 6 mm</i>
	402-000.008	Stirring magnets, 15 mm x 6 mm, 10 pieces
	402-889.632	O-rings for sealing cone, set of 5 pieces
	402-889.698	Sample vessel without screw thread , 1 piece
	402-950.014	Tubing kit for APU 28 systems <i>contains tubings, 6 pieces and connectors, 12 pieces</i>
	402-889.607	SPE columns, set á 50 pieces


	Order number	Description
	402-007.573	closable sample vessel with screw thread, 1 piece
AFU 3		
	402-889.642	Flat gasket for columns (column method, batch method)
	402-880.604	Disposable tube 18 mm x 8 mm, filled <i>packet of 10 pieces</i>
	402-880.609	Disposable tube 18 mm x 8 mm, filled, for AOX <i>packet of 100 pieces (packed in brown glass bottles)</i>
	402-880.657	O-ring 45 mm x 4 mm





	Order number	Description
	402-889.640	Sample vessel with column head
	402-880.013	Quartz container, 18 mm x 8 mm, thick-walled, set of 20 pieces <i>for AOX analysis according to the column method with DF3U/AFU3</i>
	402-889.645	Quartz container, 18 mm x 8 mm (thin-walled), with frit <i>Set of 20 pieces, for batch method with AFU3</i>
	402-889.644	Bottom part of column for batch method, column method 18x8
autoX 112		
	402-886.248	Waste hose
	402-889.602	Ejector tool for 18 x 6 containers

	Order number	Description
	402-812.374	Replacement screw <i>(mounting of autosampler on the basic unit/ ABD)</i>
	402-889.547	Gripper for sample boats
	402-823.056	Needle; 0.63 mm x 0.35 mm; for all types of syringes; set of 3 pieces <i>multi X 2500: only for TOC determination</i>
	402-889.206	Septum for rinsing vessel
	402-889.534	Syringe 100 µl, with removable needle, without markings <i>multi X 2500: for EOX determination</i>



	Order number	Description
	402-889.594	Syringe 250 µl with vent and removable needle (for autosampler) <i>multi X 2500: for TOC determination</i>
	402-889.593	Syringe 500 µl with vent and removable needle (for autosampler) <i>multi X 2500: for TOC determination</i>
	402-823.079	Removable needles for 50 and 100 µl syringes, set of 3 pieces

Autoinjector for EOX

	402-889.589	Syringe 10 µl, for Autoinjector, with removable needle <i>recommended for higher element concentrations and systems with carbon module</i>
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	Order number	Description
	402-889.592	Syringe 100 µl, for Autoinjector, with removable needle <i>recommended as standard syringe for CI systems</i>
	402-889.590	Syringe 20 µl, for Autoinjector, with removable needle <i>recommended for higher element concentrations, for systems with carbon module and for systems with only one detector module (N or S)</i>
	402-889.591	Syringe 40 µl, for Autoinjector, with removable needle <i>recommended as standard syringe for N/S systems</i>
	402-889.186	Removable special needles, set of 3 pieces






Manual Boat Drive - MBD

	402-815.839	Sealing for sample port MBD
	402-889.671	Feed tube for MBD





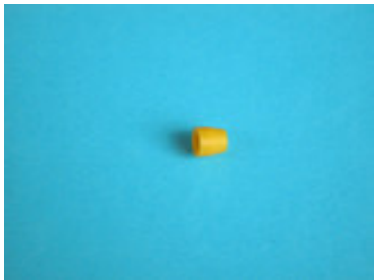

	Order number	Description
	402-889.672	Hook for MBD
	402-889.670	MBD coupling tube, glass
	11-889.518	MBD-connector, metal
	402-889.674	Quartz boat, 40 mm x 9 mm, set of 10 pieces

	Order number	Description
	402-889.560	Set of sealing elements horizontal
	402-889.673	Sample boat, special, with downholder for special applications (e.g. AOX by batch method, EC/OC determination), 10 pieces
Automatic boat drive - ABD		
	402-889.551	ABD coupling tube, glass
	402-886.236	Sealing for sample port ABD
	402-889.073	Feed tube, for MVS shunt/ABD
	402-889.066	Hook, for MVS shunt/ABD <i>suitable from MVS serial number 509 046 and higher</i>

	Order number	Description
	402-823.042	hand dosing syringe 100 µl <i>with exchangeable canula, graduated</i>
	11-889.518	MBD-connector, metal
	402-815.838	O-ring 14 mm x 4 mm for ABD
	402-889.674	Quartz boat, 40 mm x 9 mm, set of 10 pieces





	Order number	Description
	402-889.560	Set of sealing elements horizontal
	402-889.050	Septum; 12.5 mm; set of 5 pieces
	402-889.673	Sample boat, special, with downholder for special applications (e.g. AOX by batch method, EC/OC determination), 10 pieces
	402-889.039	Adsorption material, set of 3 pieces
	402-823.079	Removable needles for 50 and 100 µl syringes, set of 3 pieces

	Order number	Description
EOX - Method		
	402-815.831	Hose to connect suction extractor at workplace or vent <i>length 70 cm</i>
	402-889.549	Connecting part (metal) for gas transfer line <i>with outside thread</i>
	402-890.007	Storage vessel for sensor electrode
	402-889.085	Mounting to connect suction extractor at workplace, NS 14.5 brown glass
	402-889.527	Auto-Protection valve assembly, complete with Bypass
	402-825.123	Beaker for sulfuric acid vessel

	Order number	Description
	402-889.091	Lids for sample vials, 2 ml, set of 500 pieces
	402-99998	Preamplifier for sensor electrode
	402-889.561	Replacement hose for heated gas transfer line
	402-820.053	Ferrule for connecting part (metal) <i>for gas transfer line with outside thread</i>
	402-820.055	Ferrule for screw joint <i>gas transfer line with inside thread</i>
	402-889.123	Gas introduction tube

	Order number	Description
	402-889.559	Gas transfer hose
	402-889.124	Set of rubber plugs; 1 x NS14, 1 x NS7
	402-889.112	Internal electrolyte sensor electrode, 50 ml
	402-520.177	Ferrule set, 1/4" PTFE
	402-30003	Ferrule set, 1/8" PTFE
	402-815.023	Magnetic stirring bar, PTFE, 30 mm x 6 mm, 1 piece

	Order number	Description
	402-889.510	Multi purpose combustion tube <i>multi X 2500: For AOX and TX determination in horizontal mode, also for EOX determination in vertical and horizontal mode.</i>
	402-825.124	Petri dish for sulfuric acid vessel
	402-889.006	Platinum electrode
	402-889.092	Sample vials, 2 ml, set of 100 pieces <i>(for sample rack with 112 positions)</i>
	402-889.558	PTFE filter plate, d = 25 mm (Auto protection replacement filter) <i>Set of 5 pieces</i> <i>Replace article 402-815.027.</i>
	402-889.184	Electrolyte bridge

	Order number	Description
	402-889.110	Salt solution to make up 100 ml electrolyte
	402-889.569	Tubing inside sulfuric acid vessel with ferrule
	402-889.306	Screw cap with hole, GL 18
	402-889.508	Sulfuric acid vessel with outlet
	402-889.002	Sensor electrode

	Order number	Description
	402-889.557	Sealing disk, 17 mm, for plastic cap GL 18 resp. for waste vessel of sampler, set of 5 pieces
	402-889.507	Safety cowl for the sulfuric acid tank
	402-889.536	Silver electrode
	402-889.583	Special sealing 12 mm (FAST connector at outlet of multi purpose combustion tube)
	402-825.108	Funnel for sulfuric acid vessel

Order number	Description
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402-889.573 Connector sulfuric acid vessel



402-30031 Swagelok screw fitting, 1/4" onto 1/8", PTFE


POX - Method




402-889.759 connections for POX bottle cap






402-880.049 POX bottle, volume-calibrated with plastic base

	Order number	Description
	402-880.050	POX bottle attachment
	402-889.653	POX furnace attachment of quartz glass
	402-880.051	POX plug




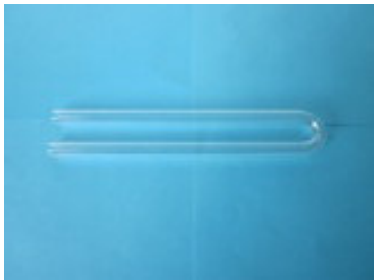

TOC-Modul - vertical operation mode

	402-886.311	Syringe graduated 500 µl with removable needle for manual injection
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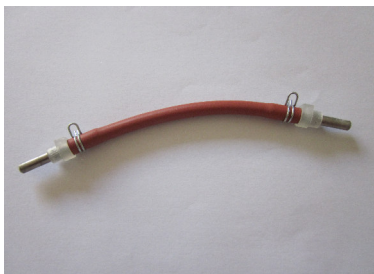
Order number	Description
	<p>402-810.050 Halogen absorber filling (copper- and brass wool)</p>
	<p>402-885.017 High-temperature mat, set of 6 pieces</p>
	<p>402-823.056 Needle; 0.63 mm x 0.35 mm; for all types of syringes; set of 3 pieces <i>multi X 2500: only for TOC determination</i></p>




	Order number	Description
	402-889.657	Condensation coil
	402-810.048	Special catalyst platinum, approx. 17 ml
	402-810.059	Special catalyst platinum, approx. 80 ml
	402-886.318	Sample vials, 8 ml 50 mm x 18 mm, 100 pieces

	Order number	Description
	402-884.005	Pump hose for peristaltic pump, waste
	402-881.006	Quartz glass cullet, coarse grains, packet of 80 g
	402-825.044	Quartz wool, 1 packet
	402-889.659	Septum TIC vessel
	402-889.658	Septum combustion tube
	402-881.245	Set of TC prefilter and water trap

	Order number	Description
	402-889.594	Syringe 250 µl with vent and removable needle (for autosampler) <i>multi X 2500: for TOC determination</i>
	402-889.593	Syringe 500 µl with vent and removable needle (for autosampler) <i>multi X 2500: for TOC determination</i>
	402-889.656	TIC vessel
	402-825.150	U-tube, o.d. = 11 mm, without filling for halogenabsorber (without connections)
	402-889.655	Combustion tube

H₂SO₄ replacement unit

	402-825.093	reservoir bottle with GL 45, 250 ml
	402-889.667	pump hose

	Order number	Description
	402-889.734	sulfuric acid vessel with filling nozzle for AOX combustion tube vertical
	402-889.735	sulfuric acid vessel with filling nozzle for multi purpose combustion tube horizontal/vertical
	402-825.094	waste bottle with GL 45, 500 ml

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Consumables

multi N/C series N/C

2100/3100(usable from S/N

N3-500/N5-500)

Order number	Description
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CONSUMABLES for multi N/C 2100, 2100S and 3100 from S/N N5-500 resp. N3-500



402-007.508

FAST Connector, black, straight, 1 piece

for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm



402-007.513

FAST Connector, black, angled, 1 piece

for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm



402-007.884

FAST Connector, black, straight, 1 piece

for tubings, glass, metal and plastic parts, for diameters 3,2 mm; 6 mm and 12 mm



402-007.988

FAST Connector, black, straight, 1 piece

for tubings, glass, metal and plastic parts, for diameters 1,6 mm; 3,2 mm; 6 mm



402-810.047

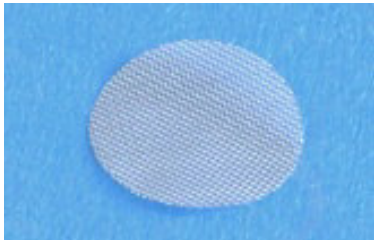






Special catalyst multi N/C, CeO₂, approx. 40 g

Order number	Description
	<p>402-810.048 Special catalyst platinum, approx. 17 ml</p> <p><i>multi N/C 2100: recommended for multi N/C 2000/2100/2100 S/3100</i></p> <p><i>multi N/C 2100 S: recommended for multi N/C 2000/2100/2100 S/3100</i></p> <p><i>multi N/C 3100: recommended for multi N/C 2000/2100/2100 S/3100</i></p>
	<p>402-810.050 Halogen absorber filling (copper- and brass wool)</p>
	<p>402-810.058 Special catalyst multi N/C, CeO₂, approx. 200 g</p>

	Order number	Description
	402-810.059	<p>Special catalyst platinum, approx. 80 ml</p> <p><i>multi N/C 2100: recommended for multi N/C 2000/2100/2100 S/3100</i></p> <p><i>multi N/C 2100 S: recommended for multi N/C 2000/2100/2100 S/3100</i></p> <p><i>multi N/C 3100: recommended for multi N/C 2000/2100/2100 S/3100</i></p>
	402-815.102	O-rings for combustion tube, set of 3 pieces
	402-820.075	Bottle Insert
	402-825.041	Fork-type clamp KS 13/2 with clamping screw
	402-825.044	Quartz wool, 1 packet

	Order number	Description
	402-881.006	Quartz glass cullet, coarse grains, packet of 80 g
	402-881.026	Finger-Tight-Set 1/8" for tube set, PEEK
	402-881.027	Finger-Tight-Set 1/16" for tube set, PEEK
	402-881.245	Set of TC prefilter and water trap
	402-884.005	Pump hose for peristaltic pump, waste
	402-884.021	Waste hose with screw joint (2 m)

	Order number	Description
	402-884.023	Lid for Bottle Insert
	402-885.010	Combustion tube, outer diameter 26 mm
	402-885.011	Pump hose for H3PO4 pump
	402-885.017	High-temperature mat, set of 6 pieces

	Order number	Description
	402-886.333	Platinum net, 1 pc
	402-890.134	combustion tube, outer diameter 16 mm
	402-890.136	combustion tube, outer diameter 16 mm, with holder
	402-950.001	U-Tube, AD 11 mm, without filling for halogenabsorber, (without connections)
	402-950.005	Set of FAST-Connectors, 8 pcs.
	402-950.015	Luer-tubing adaptor for water trap
	402-950.016	Threading aid for tubings

Order number	Description
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402-950.017 Connector IC vessel - TC prefilter
Set á 3 pieces

multi N/C 2100 WEARING MATERIAL



402-000.008 Stirring magnets, 15 mm x 6 mm, 10 pieces





402-815.138 Dosing syringe for phosphoric acid, 5 ml







402-823.056 Needle; 0.63 mm x 0.35 mm; for all types of syringes; set of 3 pieces








402-881.238 Septa for pneumatic heads, 10 mm o.d., set of 10 pieces
multi N/C 2100: only for N/C 2100 S

Order number	Description
	<p>402-886.303 Syringe 100 µl with vent and removable needle 0.63 mm x 0.35 mm (only for APG 60)</p>
	<p>402-886.304 Syringe 250 µl with vent and removable needle 1 mm x 0.7 mm (only for APG 60)</p>
	<p>402-886.305 Syringe 500 µl with vent and removable needle 1 mm x 0.7 mm (only for APG 60)</p>

Order number	Description
	<p>402-886.306 Needle 1 mm x 0.7 mm; for all types of syringes, 3 pieces</p> <p><i>multi N/C 2100: only for multi N/C 2100 S</i></p>
	<p>402-886.310 Septum for syringe (autosampler); 9.5 mm o.d.; 1 piece</p>
	<p>402-886.311 Syringe graduated 500 µl with removable needle for manual injection</p>
	<p>402-886.314 Septa pre-cut for septum-head, 11 mm, 3 pieces</p>

	Order number	Description
	402-886.318	Sample vials, 8 ml <i>50 mm x 18 mm, 100 pieces</i> <i>multi N/C 2100: for APG 60-sampler</i> <i>multi N/C 2100 S: for APG 60-sampler</i>
	402-886.326	Septa pre-cut for septum-head, 17 mm, set of 3 pieces
	402-889.050	Septum; 12.5 mm; set of 5 pieces <i>multi N/C 2100: for manual TIC - Port</i> <i>multi N/C 3100: for POC Modul</i>
	402-889.091	Lids for sample vials, 2 ml, set of 500 pieces
	402-889.092	Sample vials, 2 ml, set of 100 pieces <i>(for sample rack with 112 positions)</i>

	Order number	Description
	402-890.110	Tubing kit for multi N/C 2100 S
	402-890.111	Tubing kit for multi N/C 2100
	402-890.113	Needle with luer connector for H3PO4-syringe
	402-950.002	condensation coil
	402-950.003	IC condensing vessel multi N/C 2100

Order number	Description
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402-950.004 IC condensing vessel multi N/C 2100 S

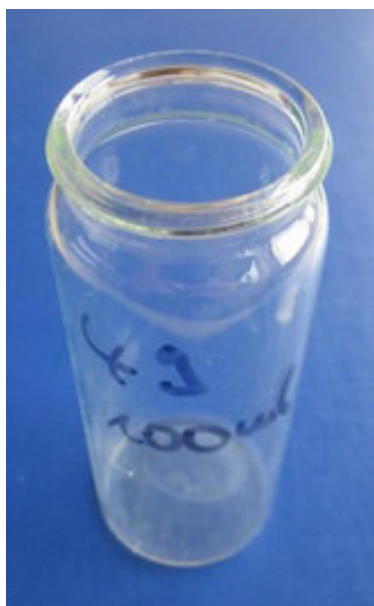


402-950.023 needle guide, lower part








402-950.024 needle guide, upper part





multi N/C 3100 WEARING MATERIAL

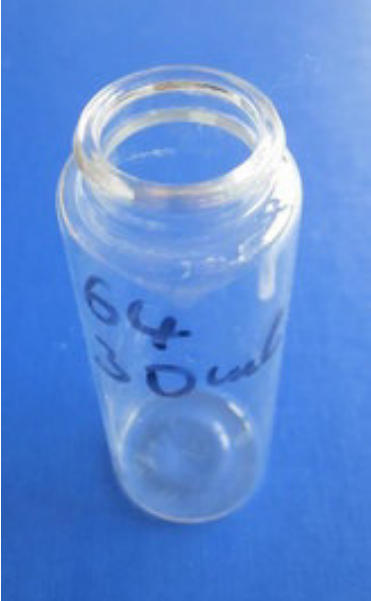






402-000.005 Sample vials, for APG 64-sampler, 49 Rack, 100 ml
80 mm x 33 mm, 70 pieces

multi N/C 3100: for dilution rack APG 64



	Order number	Description
	402-000.008	Stirring magnets, 15 mm x 6 mm, 10 pieces
	402-815.204	Septum silicon/PTFE, 24 mm, for screw cap EPA, set of 100 pieces
	402-815.205	Screw cap for 40 ml EPA screw thread vial, set of 100 pieces
	402-823.110	Syringe for Cavo pump, 5 ml
	402-825.099	Sample vials for dilution rack, 100 mm x 16 mm, 10 pieces

	Order number	Description
	402-825.119	Sample vessels for EPA Sampler with piercing function, set of 100 pieces <i>40 ml EPA screw thread vial</i>
	402-883.005	Sample aspiration tube <i>multi N/C 3100: also purge tube</i>
	402-884.019	Injection tube
	402-885.016	Sample aspiration tube with screw joint <i>multi N/C 3100: also purge tube</i>





	Order number	Description
	402-886.319	Sample vials for APG 64-sampler, 30 ml <i>78 mm x 28 mm, 100 pieces</i>
	402-889.050	Septum; 12.5 mm; set of 5 pieces <i>multi N/C 2100: for manual TIC - Port</i> <i>multi N/C 3100: for POC Modul</i>
	402-890.163	Piercing sample aspiration tube for EPA sampler
	402-890.164	Piercing sample purge tube for EPA sampler
	402-890.193	Tubing kit for multi N/C 3100





	Order number	Description
	402-950.009	Condensation coil
	402-950.010	IC/Condensation vessel
	402-950.013	sample vials 50 ml for APG 10/21, 118 mm x 27 mm, 25 pieces

Double Furnace Solid Modul WEARING MATERIAL


	402-881.107	O-ring, ID 16 mm x 3 mm (furnace head)
	402-889.039	Adsorption material, set of 3 pieces
	402-889.674	Quartz boat, 40 mm x 9 mm, set of 10 pieces

	Order number	Description
	402-890.103	Furnace sealing plug
	402-890.105	Hook
	402-890.106	Guidance tube
	402-890.107	Gasket for oxygen lock
	402-950.006	Solid combustion tube
	402-950.007	Gas transfer tubing, adapter with ball joint
	402-950.008	O2 tubing for solid - method

	Order number	Description
HT 1300		
	402-815.830	Gasket for dust trap for HT furnace (34 mm x 4 mm)
	402-825.044	Quartz wool, 1 packet
	402-881.013	U-tube, o.d. = 21 mm for halogen absorber
	402-881.213	Headline-Disposable-In-Line-Filter, box of 10 pieces
	402-886.001	Ceran field for HT furnace
	402-886.003	Connecting hose "Analyt" for HT furnace, 4 mm x 6 mm, 1 m long

	Order number	Description
	402-886.004	Connecting hose "pump" for HT furnace, 4 mm x 6 mm, 1 m long
	402-886.005	Connecting hose "oxygen supply" for HT furnace, 4 mm x 6 mm, 2 m long
	402-886.006	Feeding tool for HT furnace
	402-886.014	Ceramic combustion tube

	Order number	Description
	402-886.116	Drying agent <i>DANGEROUS GOODS!</i>
	402-886.118	Porcelain boat (white); 1,000 pieces
	402-886.129	Drying tube with GL 45 (without connectors)
	402-886.131	Calcium carbonat, standard, 100 g
	402-886.312	Halogen absorber filling for U-tube, o.d. = 21 mm (conditioned)

	Order number	Description
	402-886.322	Halogen absorber filling (conditioned) <i>for U-tube, o.d. = 21 mm, set of 5 pieces</i>

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Consumables

multi N/C pharma HT

(usable from S/N N2-500)

Order number**Description****multi N/C pharma HT CONSUMABLES**

402-810.050

Halogen absorber filling (copper- and brass wool)



402-890.202

Filling for reactor multi N/C pharma




402-890.211






Certified TOC-Reactor for multi N/C pharma, 26 mm combustion tube
complete with filling, ready to use






402-890.217







certified TOC-reactor for multi N/C pharma, 16 mm combustion tube
*complete with filling, ready for use***multi N/C pharma HT WEARING MATERIAL**

	Order number	Description
	402-007.508	FAST Connector, black, straight, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm</i>
	402-007.513	FAST Connector, black, angled, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm</i>
	402-007.884	FAST Connector, black, straight, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm; 6 mm and 12 mm</i>
	402-007.988	FAST Connector, black, straight, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 1,6 mm; 3,2 mm; 6 mm</i>
	402-815.102	O-rings for combustion tube, set of 3 pieces
	402-815.204	Septum silicon/PTFE, 24 mm, for screw cap EPA, set of 100 pieces



	Order number	Description
	402-815.205	Screw cap for 40 ml EPA screw thread vial, set of 100 pieces
	402-823.110	Syringe for Cavro pump, 5 ml
	402-825.041	Fork-type clamp KS 13/2 with clamping screw
	402-825.119	Sample vessels for EPA Sampler with piercing function, set of 100 pieces <i>40 ml EPA screw thread vial</i>
	402-881.026	Finger-Tight-Set 1/8" for tube set, PEEK
	402-881.027	Finger-Tight-Set 1/16" for tube set, PEEK

	Order number	Description
	402-881.245	Set of TC prefilter and water trap
	402-884.005	Pump hose for peristaltic pump, waste
	402-884.007	Sample aspiration tube for multi N/C UV HS <i>or sample aspiration tube/ purge tube for multi N/C pharma HS, pharma TOC</i>
	402-884.019	Injection tube
	402-884.021	Waste hose with screw joint (2 m)

	Order number	Description
	402-884.026	Sample aspiration tube with screw joint for multi N/C UV HS <i>or sample aspiration tube/ purge tube for multi N/C pharma HS, pharma TOC</i>
	402-884.038	Set of piercing needles for sample aspiration and purging <i>only for EPA sampler</i>
	402-885.010P	Furnace tube multi N/C pharma HS, outer diameter 26 mm
	402-885.011	Pump hose for H3PO4 pump
	402-886.333	Platinum net, 1 pc

	Order number	Description
	402-890.101	Sample vessels for APG 49, 100 ml, set of 100 pieces
	402-890.134	combustion tube, outer diameter 16 mm
	402-890.136	combustion tube, outer diameter 16 mm, with holder
	402-890.204	Tubing kit for multi N/C pharma HS
	402-950.001	U-Tube, AD 11 mm, without filling for halogenabsorber, (without connections)
	402-950.005	Set of FAST-Connectors, 8 pcs.

	Order number	Description
	402-950.010	IC/Condensation vessel
	402-950.011	Condensation Coil
	402-950.013	sample vials 50 ml for APG 10/21, 118 mm x 27 mm, 25 pieces
	402-950.015	Luer-tubing adaptor for water trap
	402-950.016	Threading aid for tubings

	Order number	Description
	402-950.017	Connector IC vessel - TC prefilter <i>Set á 3 pieces</i>
	498-607 620 01	Sample vessels, 100 ml, schott bottles

Swab Test Modul WEARING MATERIAL

	402-890.107	Gasket for oxygen lock
	402-950.006	Solid combustion tube
	402-890.105	Hook
	402-890.106	Guidance tube

	Order number	Description
	402-950.007	Gas transfer tubing, adapter with ball joint
	402-881.107	O-ring, ID 16 mm x 3 mm (furnace head)
	402-950.008	O2 tubing for solid - method
	402-890.103	Furnace sealing plug
	402-889.674	Quartz boat, 40 mm x 9 mm, set of 10 pieces
	402-889.039	Adsorption material, set of 3 pieces

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Consumables multi N/C pharma UV (usable from S/N N6-500)

Order number	Description
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Consumables



402-823.033 Syringe 25 ml for Cavro pump 9 port



402-950.016 Threading aid for tubings



402-007.884 FAST Connector, black, straight, 1 piece

for tubings, glass, metal and plastic parts, for diameters 3,2 mm; 6 mm and 12 mm



402-007.508 FAST Connector, black, straight, 1 piece

for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm



402-007.988 FAST Connector, black, straight, 1 piece







for tubings, glass, metal and plastic parts, for diameters 1,6 mm; 3,2 mm; 6 mm





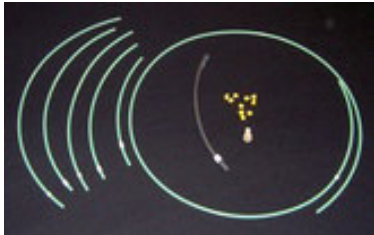







402-007.513 FAST Connector, black, angled, 1 piece

for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm

	Order number	Description
	402-881.027	Finger-Tight-Set 1/16" for tube set, PEEK
	402-881.026	Finger-Tight-Set 1/8" for tube set, PEEK
	402-810.050	Halogen absorber filling (copper- and brass wool)
	402-950.012	IC-Vessel
	402-950.015	Luer-tubing adaptor for water trap

	Order number	Description
	402-890.163	Piercing sample aspiration tube for EPA sampler
	402-890.164	Piercing sample purge tube for EPA sampler
	402-883.005	Sample aspiration tube
	402-885.016	Sample aspiration tube with screw joint
	402-884.007	Sample aspiration tube for multi N/C UV HS or sample aspiration tube/ purge tube for multi N/C pharma HS, pharma TOC
	402-884.026	Sample aspiration tube with screw joint for multi N/C UV HS or sample aspiration tube/ purge tube for multi N/C pharma HS, pharma TOC

	Order number	Description
	402-950.013	sample vials 50 ml for APG 10/21, 118 mm x 27 mm, 25 pieces
	402-890.101	Sample vessels for APG 49, 100 ml, set of 100 pieces
	402-825.119	Sample vessels for EPA Sampler with piercing function, set of 100 pieces <i>40 ml EPA screw thread vial</i>
	402-884.005	Pump hose for peristaltic pump, waste
	402-890.305	Tubing kit for including hoses
	402-815.205	Screw cap for 40 ml EPA screw thread vial, set of 100 pieces

	Order number	Description
	402-815.204	Septum silicon/PTFE, 24 mm, for screw cap EPA, set of 100 pieces
	402-950.005	Set of FAST-Connectors, 8 pcs.
	402-881.245	Set of TC prefilter and water trap
	402-950.001	U-Tube, AD 11 mm, without filling for halogenabsorber, (without connections)

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Consumables multi N/C UV HS(usable from S/N N6-500)

Consumables multi N/C UV HS - from S/N N6-500



402-823.033	Syringe 25 ml for Cavro pump 9 port
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402-950.016	Threading aid for tubings
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402-007.508	FAST Connector, black, straight, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm</i>
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402-007.988	FAST Connector, black, straight, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 1,6 mm; 3,2 mm; 6 mm</i>
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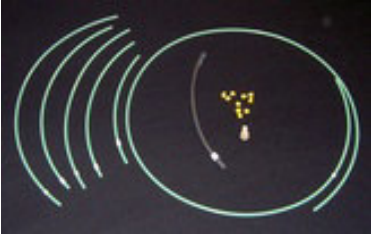

402-007.884	FAST Connector, black, straight, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm; 6 mm and 12 mm</i>
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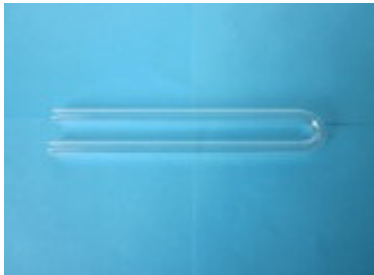


402-007.513	FAST Connector, black, angled, 1 piece <i>for tubings, glass, metal and plastic parts, for diameters 3,2 mm and 6 mm</i>
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	Order number	Description
	402-881.027	Finger-Tight-Set 1/16" for tube set, PEEK
	402-881.026	Finger-Tight-Set 1/8" for tube set, PEEK
	402-810.050	Halogen absorber filling (copper- and brass wool)
	402-950.012	IC-Vessel
	402-950.015	Luer-tubing adaptor for water trap





	Order number	Description
	402-890.163	Piercing sample aspiration tube for EPA sampler
	402-890.164	Piercing sample purge tube for EPA sampler
	402-883.005	Sample aspiration tube
	402-885.016	Sample aspiration tube with screw joint
	402-884.007	Sample aspiration tube for multi N/C UV HS or sample aspiration tube/ purge tube for multi N/C pharma HS, pharma TOC
	402-884.026	Sample aspiration tube with screw joint for multi N/C UV HS or sample aspiration tube/ purge tube for multi N/C pharma HS, pharma TOC

	Order number	Description
	402-950.013	sample vials 50 ml for APG 10/21, 118 mm x 27 mm, 25 pieces
	402-890.101	Sample vessels for APG 49, 100 ml, set of 100 pieces
	402-825.119	Sample vessels for EPA Sampler with piercing function, set of 100 pieces <i>40 ml EPA screw thread vial</i>
	402-884.005	Pump hose for peristaltic pump, waste
	402-890.305	Tubing kit for including hoses
	402-815.205	Screw cap for 40 ml EPA screw thread vial, set of 100 pieces



	Order number	Description
	402-815.204	Septum silicon/PTFE, 24 mm, for screw cap EPA, set of 100 pieces
	402-950.005	Set of FAST-Connectors, 8 pcs.
	402-881.245	Set of TC prefilter and water trap
	402-950.001	U-Tube, AD 11 mm, without filling for halogenabsorber, (without connections)

HT 1300

	Order number	Description
	402-886.006	Feeding tool for HT furnace
	402-886.131	Calcium carbonat, standard, 100 g
	402-886.001	Ceran field for HT furnace

	Order number	Description
	402-815.830	Gasket for dust trap for HT furnace (34 mm x 4 mm)
	402-886.322	Halogen absorber filling (conditioned) <i>for U-tube, o.d. = 21 mm, set of 5 pieces</i>
	402-886.312	Halogen absorber filling for U-tube, o.d. = 21 mm (conditioned)
	402-881.213	Headline-Disposable-In-Line-Filter, box of 10 pieces
	402-886.014	Ceramic combustion tube
	402-886.118	Porcelain boat (white); 1,000 pieces

	Order number	Description
	402-825.044	Quartz wool, 1 packet
	402-886.116	Drying agent <i>DANGEROUS GOODS!</i>
	402-886.129	Drying tube with GL 45 (without connectors)
	402-881.013	U-tube, o.d. = 21 mm for halogen absorber
	402-886.003	Connecting hose "Analyt" for HT furnace, 4 mm x 6 mm, 1 m long

	Order number	Description
	402-886.004	Connecting hose "pump" for HT furnace, 4 mm x 6 mm, 1 m long
	402-886.005	Connecting hose "oxygen supply" for HT furnace, 4 mm x 6 mm, 2 m long

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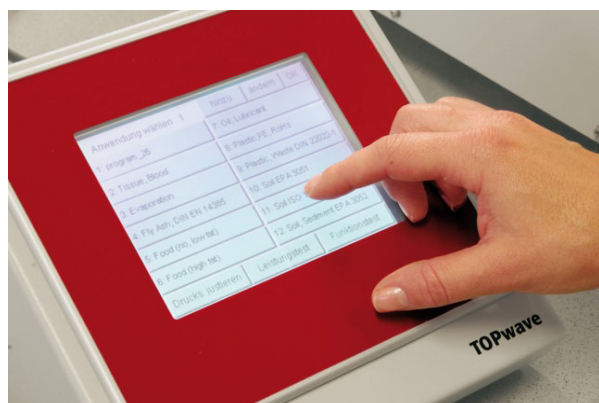
Prices are quoted exclusive of value added tax.

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Catalogue CONSUMABLES

Sample Preparation/ Microwave



Microwave system

TOPwave®

Please choose your Consumables list.



Consumables TOPwave

Order number	Description
--------------	-------------

Consumables - common



419-5303227-0

Vent-tube set 2 m
suitable for PH 30 / PM 60 / PL 100 and CX 100, PFA



419-5303537-0

Vent-tube set 4 m
suitable for PH 30 / PM 60 / PL 100 and CX 100, PFA



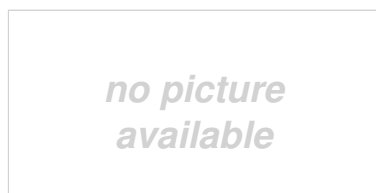
419-5302963-0

Fixation screw for lip seal ring



419-5302817-0

Blind plug for turntable to seal the gas collection system
at unused vessel positions



419-5004110-0

Knurled nut for exhaust tube of gas collection system

*no picture
available*



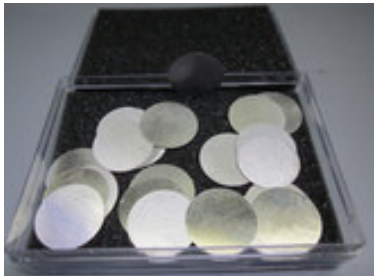
419-5302962-0

Lip-seal ring for the gas collection system




	Order number	Description
	419-5014622-0	Marble granulate evaporation unit
	419-5303498-0	Assembly tool RPM-screw caps
	419-5302811-0	Nut for connecting tube to gas collection system/integrated suction system
	419-5067060-0	cutting ring for evaporation unit
	419-5303558-0	Drop tray evaporation unit 12-pos. turntable
	419-5303493-0	Drop tray evaporation unit 8-pos. turntable

	Order number	Description
	419-5303508-0	Connecting tube to gas collection system / integrated suction system (without nut)
	419-5303611-0	Weighing cup (2.0 ml) <i>PTFE cup for Sampleweight (2,0 ml; suitable for PM 40, PH 30, PM 60, PL 100, CX 100)</i>
	419-5303612-0	Weighing cup (2.0 ml, Set) <i>PTFE cup for Sampleweight (2,0 ml; suitable for PM 40, PH 30, PM 60, PL 100, CX 100) set of 12 pieces</i>
	419-5303613-0	Weighing cup (2.5 ml) <i>PTFE cup for Sampleweight (2,5 ml; suitable for PM 60, PL 100, CX 100)</i>
	419-5303614-0	Weighing cup (2.5 ml, Set) <i>PTFE cup for Sampleweight (2,5 ml; suitable for PM 60, PL 100, CX 100) set of 12 pieces</i>



Consumables - PM 40 Vessel

	419-5303445-0	Rupture disc for PM 40 made of aluminium, 40 bar, set of 25 pieces
---	---------------	--

	Order number	Description
	419-5303446-0	Lid for PM 40 made of TFM, set of 10 pieces
	419-5303598-0	Cap insert for closure caps PM 40 with pressure control (RPM)
	419-5003447-0	Vessel bottom PM 40 made of TFM
	419-5303574-0	Glass-Ring for closure caps with pressure control (RPM)
	419-5306386-0	O-Ring (25 x 3 mm) for closure caps with PM 40 pressure control (RPM)
	419-5303588-0	Polarisation foil for prism RPM, set of 24 pieces <i>Important: Please remove the protective foil on both sides!</i>

	Order number	Description
	419-5303573-0	Glass prism for closure caps with pressure control (RPM)
	419-5303571-0	Knurled screw for closure caps with pressure control (RPM)
	419-5303433-0	Cap without pressure control for PM 40 vessel made of TFM

Consumables - PH 30 / PM 60 / PL 100 vessel

	419-5303234-0	Evaporation cap PH30/PM60/PL100
	419-5303740-0	Rupture disc Special for PM 60 vessels, 50 bar, stainless steel (SS316), set of 20 pieces

	Order number	Description
	419-5303065-0	Rupture disc Special PM 60, set of 25 pieces
	419-5014616-0	Rupture disc standard PH 30 and PL 100, set of 25 pieces
	419-5709024-0	Lid for PH 30 made of TFM, set of 10 pieces
	419-5300005-0	Lid for PL 100 made of TFM, set of 5 pieces
	419-5014617-0	Lid for PM 60 made of TFM, set of 5 pieces
	419-5303567-0	Cap insert for closure caps with pressure control (RPM)

	Order number	Description
	419-5003605-0	Vessel bottom PH 30 made of TFM
	419-5003672-0	Vessel bottom PL 100 made of TFM
	419-5003603-0	Vessel bottom PM 60 made of TFM
	419-5303574-0	Glass-Ring for closure caps with pressure control (RPM)
	419-5304101-0	O-Ring RPM (Viton)

	Order number	Description
	419-5303588-0	Polarisation foil for prism RPM, set of 24 pieces <i>Important: Please remove the protective foil on both sides!</i>
	419-5303573-0	Glass prism for closure caps with pressure control (RPM)
	419-5303571-0	Knurled screw for closure caps with pressure control (RPM)
	419-5046170-0	Special lid with integrated TFM rupture disc for PL 100 <i>Set of 5 pieces</i>
	419-5046180-0	Special lid with integrated TFM rupture disc for PM 60 <i>Set of 5 pieces</i>
	419-5303563-0	Cap without pressure control for PH 30 / PM 60 / PL 100 vessel made of TFM
	419-5302844-0	Connection fitting for evaporation cap PH30/PM60/PL100

Order number	Description
--------------	-------------

Consumables - CX 100



419-5303825-0

Evaporation unit CX 100 evaporation lid



419-5303494-0

Evaporation unit CX 100 adaptor ring



419-5303492-0

Evaporation unit CX 100 elbow fitting



419-5308040-0

Rupture disc for CX 100 made of Titanium, 100 bar, set of 10 pieces



419-5302817-0

Blind plug for turntable to seal the gas collection system
at unused vessel positions

Order number	Description
	<p>419-5303287-0 Liner for pressure vessel CX 100 made of TFM, 100 ml, 100 bar</p>
	<p>419-5303535-0 CX 100 ceramic pressure jacket (yellow-old)</p>

	Order number	Description
	419-5303284-0	CX 100 ceramic pressure jacket (white-new)
	419-5308060-0	Lid for CX 100 made of TFM, set of 5 pieces
	419-5304707-0	Cap insert for closure caps CX 100 with pressure control (RPM)
	419-5003279-0	Vessel bottom CX 100 made of TFM
	419-5304882-0	Glass-Ring for closure caps CX 100 with pressure control (RPM)




	Order number	Description
	419-5304101-0	O-Ring RPM (Viton)
	419-5303296-0	PEEK-Rung nut for CX 100 closure cap
	419-5303588-0	Polarisation foil for prism RPM, set of 24 pieces <i>Important: Please remove the protective foil on both sides!</i>
	419-5303573-0	Glass prism for closure caps with pressure control (RPM)
	419-5303571-0	Knurled screw for closure caps with pressure control (RPM)
	419-5004740-0	Screw cap for CX 100 without pressure measurement






Consumables - CX 17

	Order number	Description
	419-5303428-0	CX 17 Spacer ring made of PTFE
	419-5303283-0	CX 17 Insert made of TFM, 17 ml
	419-5303282-0	CX 17 pressure jacket
	419-5303485-0	Lid for CX 17 made of TFM, set of 4 pieces

Order number	Description
	419-5303389-0 PTFE Adapter piece CX 17 in PL 100

Consumables - QX 20 / QX 22

	419-5014410-0 Rupture disc for QX 20 / QX 22 made of Monel, 100 bar, set of 5 pieces
	419-5014420-0 Lid for QX 20 / QX 22 made of TFM, set of 10 pieces
	419-5014414-0 Lid for QX 20 / QX 22 made of TFM, set of 4 pieces

	Order number	Description
	419-5014443-0	Quartz insert QX 20 for PM60- container
	419-5303443-0	Quartz insert QX 22 for PL100-container
	419-5014423-0	QX 20 / QX 22 Fixation plate for rupture disc made of stainless steel
	419-5014433-0	QX 20 Centring sleeve made of PTFE
	419-5014434-0	QX 22 Centring sleeve made of PTFE

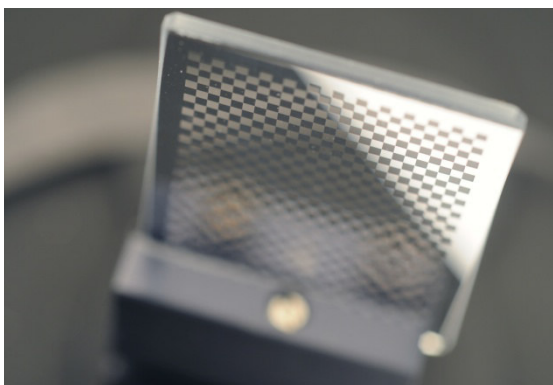
[Back to start](#)

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Catalogue CONSUMABLES

Molecule Absorption Spectroscopy



UV/Vis Spectral photometers

SPECORD® 50 PLUS

SPECORD® S 600

SPECORD® 200 PLUS

SPEKOL® 1500

SPECORD® 210 PLUS

SPECORD® Dissolution

SPECORD® 250 PLUS

Please choose your Consumables list.



Consumables UVVIS

Consumables SPECORD 2XX/50/40/30 and SPECORD S600

Cell holder



820-60204-0

15cell holder, for 10mm cuvettes, additional holder for cell carousel

Hoses for sipper system



820-60164-0

Drain hose d = 3 x 3000 mm for flow cell



820-60128-0

Aspiration hose with adapter for
flow cell to sampler (1,800 mm long)



820-60127-0


Aspiration hose with adapter for flow cell (160 mm long)










820-60166-0

PTFE hose d = 1 x 1000 mm for flow cell

	Order number	Description
	820-60151-0	Pump hose of Viton for aggressive media d = 2.5 x 125 mm
	820-60153-0	Pump hose of Viton for aggressive media d = 3 x 150 mm
	820-60154-0	Pump hose d = 1.5 mm for flow cell
	820-60169-0	Pump hose d = 2 mm for flow cell
	820-60165-0	Pump hose d = 2.5 mm for flow cell

Order number	Description
	<p>820-60167-0 Hose for single-cell holder, thermostatted, and flow cell, thermostatted</p>
	<p>820-60035-0 Pump hose for Cassettesipper PharmaMed/Ismaprene d = 0,89 mm</p>
	<p>820-60036-0 Pump hose for Cassettesipper PharmaMed/Ismaprene d = 1,42 mm <i>Pack á 6 pieces</i></p>
	<p>820-60049-0 Pump hose for Cassettesipper PharmaMed/Ismaprene d = 2,06 mm <i>Pack á 6 pieces</i></p>

	Order number	Description
	820-60050-0	Pump hose for Cassettesipper Tygon MH d = 2,54 mm
	820-60258-0	Pump hose for Cassettesipper Tygon ST d = 1,42 mm
	820-60037-0	Pump hose for Cassettesipper Tygon ST d = 1,85 mm
	820-60039-0	Pump hose for Cassettesipper Tygon ST d = 2,06 mm, 12 pcs.

	Order number	Description
	820-60038-0	Pump hose for Cassettesipper Tygon ST d = 2,54 mm
	820-60150-0	Hose for multiple cell changer, thermostatted
	820-60120-0	Set of hoses for flow cell with screw plugs
	407-170.087	Snap-in tube cassette
	820-60234-0	Set of Standard Hoses for Cassette Sipper

Magnetic Stirrer

Order number	Description
--------------	-------------



820-60024-0

Stirring magnets, round 2 x 5 mm, 10 pieces

cable



820-60040-0

RS 232 Interface cable for control by a PC



820-60198-0

USB Interface cable for control by a PC

another consumables



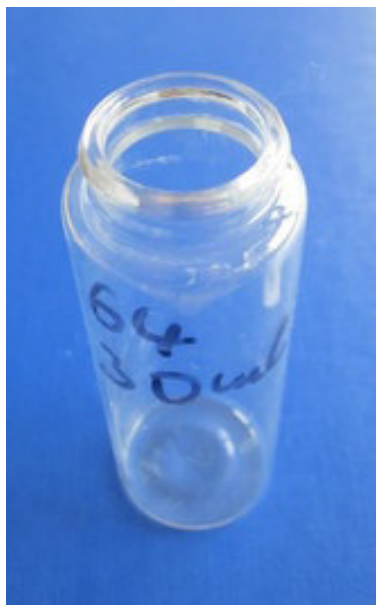
820-60026-0

Single stirring block

consisting of:
- stirring block
- connecting cable

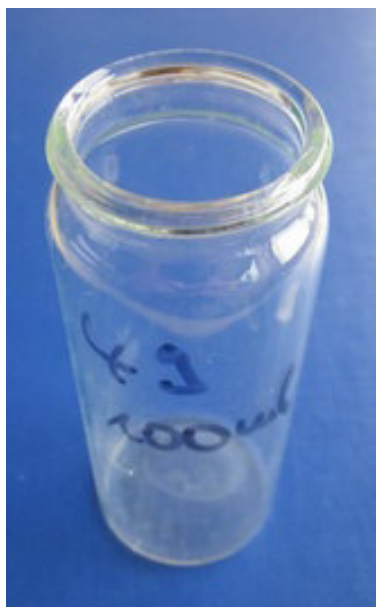
Control unit must be ordered separately!

Order number	Description
--------------	-------------



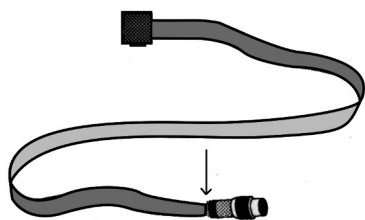
402-886.319

Sample vials for APG 64-sampler, 30 ml
78 mm x 28 mm, 100 pieces



402-000.005

Sample vials, for APG 64-sampler, 49 Rack, 100 ml
80 mm x 33 mm, 70 pieces



820-60184-0

Stirrer extension cable

Order number	Description
--------------	-------------



820-60025-0 Plug-type Control Unit Mini 110V







820-60027-0 Plug-type Control Unit Mini 230V

Lamps



820-60238-0 Deuterium lamp
SPEKOL 1300/1500/2000
replace article 402.761 deuterium lamp

	Order number	Description
	820-60021-0	Deuterium lamp <i>SPECORD 2xx (PLUS)/ 50 (PLUS)/ 40/ 30, SPECORD S 600, S 100, SPEKOL 1200</i>
	820-60113-0	Halogen lamp, with precentered base, 1 piece <i>SPECORD 2xx with Dissolution Kit</i> <i>Attention S/N controlled, see details!</i> <i>SPECORD 205: until S/N 222A582</i> <i>SPECORD 210: until S/N 222J314</i>
	820-60259-0	Halogen lamp with precentered base, 1 piece <i>SPECORD 2xx with Dissolution-Kit</i> <i>SPECORD 205: starting with S/N 222A583</i> <i>SPECORD 210: starting with S/N 222K315</i>
	820-60268-P	Halogen lamp with precentered base, 1 piece <i>SPECORD 200/210 PLUS Dissolution</i>

	Order number	Description
	820-60267-P	Halogen lamp, with precentered base, 3 pieces <i>SPECORD 50 PLUS / 2XX PLUS</i>
	820-60013-0	Halogen lamp, with precentered base, 3 pieces <i>SPECORD 2xx/ 50/ 40/ 30 and SPECORD S 600</i>
	820-60028-0	Halogen lamp, 3 pieces <i>SPEKOL 1100</i>
	820-60041-0	Halogen lamp, 3 pieces <i>SPECORD S 100</i>

Order number	Description
--------------	-------------



820-60237-0

Halogen lamp, 3 pieces
SPEKOL 1300/1500/2000



820-60245-0

Halogen lamp, 3 pieces
for SPECORD 200 as long as S/N 199

Cells

Order number	Description
--------------	-------------



820-70010-0

100-OS Standard-Cell, glass, SD 10 mm, 3500µl, with lid



820-70014-0

100-OS Standard-Cell, glass, SD 100 mm, 35000µl, with lid

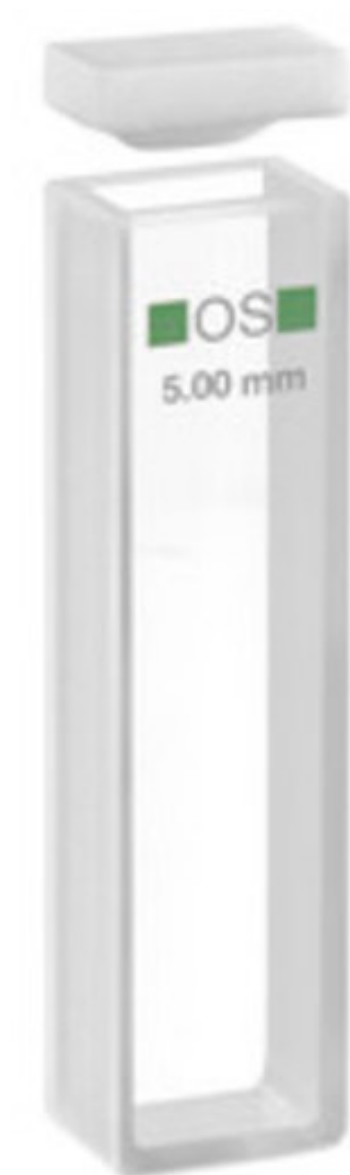
Order number	Description
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820-70011-0

100-OS Standard-Cell, glass, SD 20 mm, 7000µl, with lid

Order number	Description
--------------	-------------



820-70009-0

100-OS Standard-Cell, glass, SD 5 mm, 1750µl, with lid



820-70013-0

100-OS Standard-Cell glass, SD 50 mm, 17500 µl, with lid

Order number	Description
--------------	-------------



820-70018-0

100-QS Standard-Cell, quartz, SD 10mm, 3500 µl, with lid



820-70022-0

100-QS Standard-Cell, quartz, SD 100 mm, 35000 µl, with lid

Order number	Description
--------------	-------------



820-70016-0

100-QS Standard-Cell, quartz, SD 2 mm, 700 µl, with lid

Order number	Description
--------------	-------------



820-70019-0

100-QS Standard-Cell, quartz, SD 20 mm, 7000 µl, with lid

Order number	Description
--------------	-------------



820-70017-0

100-QS Standard-Cell, quartz, SD 5 mm, 1750 μ l, with lid



820-70021-0

100-QS Standard-Cell, quartz, SD 50 mm, 17500 μ l, with lid

Order number	Description
--------------	-------------

820-70032-0

104-QS Semi-micro cell, quartz, SD 10 mm, 1400 µl, with lid



Order number	Description
--------------	-------------



820-70038-0

104.002-QS Micro-Cell, quartz, SD 10 mm, 700 µl, with lid

Order number	Description
--------------	-------------



820-70036-0

104B-QS Semi-Micro-Cell, quartz, SD 10 mm, 1400 µl, with lid



820-70041-0

105-QS Micro-Cell, quartz, SD 10 mm, 700µl, with lid

	Order number	Description
	820-70046-0	105.201-QS Ultra-Micro-Cell with Plug; quartz, SD 10 mm; 100 µl <i>measuring chamber-volumina 100 µl</i> <i>fill-volumina 120 µl</i> <i>central height 8,5 mm</i>

	Order number	Description
	820-70047-0	105.202-QS Ultra-Micro Cell with PE plug; quartz, SD 10 mm; 50 μ l <i>measuring chamber-volumina 50 μl</i> <i>fill-volumina 70 μl</i> <i>central height 15 mm</i>

Order number	Description
--------------	-------------



820-70051-0

105.210-QS Ultra-Micro Cell, quartz, SD 10 mm, 5 μ l
measuring chamber-volumina 5 μ l
fill-volumina 10 μ l
central height 15 mm

Order number	Description
--------------	-------------

820-70058-0

108-QS Semi Micro-Cell, quartz, SD 10 mm, 1000 µl, with lid



Order number	Description
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820-70062-0

108.002B-QS Micro-Cell, quartz, SD 10 mm, 500 µl, with lid



820-70070-0

110-OS Standard-Cell with plug, glass, SD 10 mm, 3500 µl

Order number	Description
--------------	-------------



820-70080-0

110-QS Standard-Cell with 2 plugs, quartz, SD 50 mm, 17500 μ l



820-70077-0

110-QS Standard-Cell with plug, quartz, SD 10 mm, 3500 μ l

Order number	Description
--------------	-------------

820-70142-0

175.000-QS Flow cell, quartz, SD 10mm, 750 µl
with Inlet/Outlet Tubes on Top, 10 mm pathlength, center height: 15 mm
for high sample volumes
APG 49, APG 64 or APG 53



820-70146-0

176.000-QS Flow cell with inlet/outlet tube, quartz, SD 50 mm, 2250 µl



Order number	Description
--------------	-------------

820-70156-0

178.010-OS Flow cell with inlet/outlet tube, glass, SD 10 mm, 80µl



Order number	Description
--------------	-------------

820-70158-0

178.010-QS Flow cell Ultra-Micro, quarz, SD 10mm, 80µl
above with inlet/outlet tube, quartz



Order number	Description
--------------	-------------

820-70166-0

178.710-OS Flow cell, compact, glass, SD 10mm, 80µl
with 2 screw connections and FEP tubes, glass, 10 mm, ZH 15mm



	Order number	Description
	820-70001-0	6030-OG Standard-Cell, glass, SD 20 mm, without lid
	820-70083-0	distance piece aluminum - 5 to 10mm
	820-70081-0	Semi Micro-Cell, quartz, 10mm

Order number	Description
--------------	-------------



820-70082-0

Semi Micro-Cell, quartz, 5mm



820-60122-0

Set Flow-through cell glass, SD 10 mm

including:

- Flow cell with screw plug (glass) OS 178.710

- Set of aspiration and pump hose with adapter Center height 15 mm, 10 mm pathlength

Sipper system to be ordered separately!

Order number	Description
--------------	-------------



820-60121-0

Set Flow-through cell, quartz, SD 10 mm

including:

- Flow cell with screw plug (quartz) QS 178.710

- Set of aspiration and pump hose with adapter Center height 15 mm, 10 mm pathlength

Sipper system to be ordered separately!

Replacement paper



820-60241-0

Replacement paper for Thermoprinter

SPEKOL 1300/1500

5 pieces

Back to start

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Guidelines

for
Operational Qualification of
UV Vis Spectrophotometer
SPECORD[®] PLUS

Contents

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Order no.: _____ Customer no.: _____

Installation date: _____ performed by: _____

Software version: _____ Serial number: _____

Firmware: _____

Company	
User	
Department	
Street	
Zip code, city	
Telephone	
Fax	
e-mail	

1. Operational qualification, OQ

1.1 General notes on the validation

System validation may be performed either for compliance with the technical specifications warranted by Analytik Jena AG or with the normative target guidelines issued by the European Pharmacopoeia.

Please note that work for SPECORD® PLUS system validation may not be carried out by anyone other than qualified expert personnel. The SPECORD® PLUS should have undergone a warm-up phase of one hour before validation procedures may begin. Remember to turn on both radiation sources for this purpose.

Validation is performed user-guided with the software package „Validation PLUS“ for the Windows-based software WinASPECT® PLUS. The printout of the result records created by software is listed in the Annex as accompanying documents of Operational Qualification.

Besides, the protocol and the raw data the protocol are based on will be automatically stored in computer-readable form to ensure trace ability of results.

The location of the protocols and the raw data on the PC are documented on the printout.

Copies of the measurement procedures provided by the suppliers of the standards are also included in the Section „List of accompanying documents of Operational Qualification“.

1.2 *Ascertainment of the validation to be tested*

The following spectrophotometer is to be tested within the scope of the Operational Qualification:

SPECORD® 50 PLUS ☐

SPECORD® 200 PLUS ☐

SPECORD® 210 PLUS ☐

SPECORD® 250 PLUS ☐

The validation procedure is carried out according to following specification:

Validation in compliance with manufacturer's technical Specification ☐

(section 1.4)

Validation in compliance with European Pharmacopoeia ☐

(section 1.5)

Parameters, which are not included in a given validation procedure, will not be subject to the related OQ process.

Date: _____

Signature of AJ authorized person: _____

Reviewed by user: _____

1.3 Technical Data of SPECORD® PLUS

SPECORD® 250 PLUS	SPECORD® 210 PLUS	SPECORD® 200 PLUS	SPECORD® 50 PLUS
Zero point of transmittance			
±0.05 %T	±0.05 %T	±0.05 %T	±0.05 %T
Baseline deviation			
±0.0005 A	±0.0005 A	±0.0005 A	±0.0005 A
Baseline noise			
≤ 0.0001 A	≤ 0.0001 A	≤ 0.0001 A	≤ 0.0001 A
100 % transmittance without correction (Min./Max.)			
70/180 %T	70/180 %T	70/180 %T	400/900 %T
Photometric accuracy Vis range			
±0.003 A	±0.003 A	±0.003 A	±0.003 A
Photometric accuracy UV range			
±0.01 A	±0.01 A	±0.01 A	±0.01 A
Photometric accuracy at 430 nm			
±0.01 A	±0.01 A	±0.01 A	±0.01 A
Wavelength accuracy			
±0.5 nm	±0.5 nm	±0.5 nm	±0.5 nm
Wavelength accuracy at 486 nm / D₂E			
±0.2 nm	±0.2 nm	±0.2 nm	±0.2 nm
Wavelength accuracy at 656 nm / D₂E			
±0.1 nm	±0.1 nm	±0.1 nm	±0.1 nm
Wavelength reproducibility			
≤ 0.02 nm	≤ 0.02 nm	≤ 0.02 nm	≤ 0.02 nm
Stray light at 198 nm			
≤ 0.03 %T	≤ 0.3 %T	≤ 0.3 %T	≤ 0.3 %T
Stray light at 220/240 nm			
≤ 0.005 %T	≤ 0.03 %T	≤ 0.03 %T	≤ 0.03 %T
Stray light at 340 nm			
≤ 0.005 %T	≤ 0.01 %T	≤ 0.02 %T	≤ 0.02 %T
Spectral resolution A269/A266 nm (Min)			
≥ 2.3	≥ 2.3	≥ 1.6	≥ 1.6

1.4 Results of Validation of Metrological Properties in Compliance with Manufacturer's Technical Specification

Serial no: _____

Validated performance parameter	complies	does not comply
Zero point of transmittance	<input type="checkbox"/>	<input type="checkbox"/>
▪ Standard: Beam mask		
▪ Standard ID: n.a.		
▪ Certificate of standard valid until: n.a.		
Baseline deviation	<input type="checkbox"/>	<input type="checkbox"/>
▪ Standard: none		
▪ Standard-ID: n.a.		
▪ Certificate of standard valid until: n.a.		
Baseline noise	<input type="checkbox"/>	<input type="checkbox"/>
▪ Standard: none		
▪ Standard-ID: n.a.		
▪ Certificate of standard valid until: n.a.		
100 % transmittance without correction	<input type="checkbox"/>	<input type="checkbox"/>
▪ Standard: none		
▪ Standard-ID: n.a.		
▪ Certificate of standard valid until: n.a.		
Photometric accuracy Vis range	<input type="checkbox"/>	<input type="checkbox"/>
▪ Standard: Hellma secondary standards for calibration of spectrophotometers		
▪ Filter F4 (Neutral density filter)		
▪ Catalogue Number: 666-000		
▪ Set Number: _____		
▪ Certificate of standard valid until: _____		
Photometric accuracy UV range	<input type="checkbox"/>	<input type="checkbox"/>
▪ Potassium dichromate solution 60 mg/l		
▪ Standard-ID:: _____		
▪ Charge-Number: _____		
▪ Certificate of standard valid until: _____		

Validated performance parameter	complies	does not comply
Photometric accuracy at 430 nm	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Potassium dichromate solution 600 mg/l für 430 nm Standard-ID:: _____ Charge-Number: _____ Certificate of standard valid until: _____ 		
Wavelength accuracy	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Standard: Hellma secondary standards for calibration of spectrophotometers Filter material: Holmium oxide Catalogue Number: 666-000 Set Number: _____ Certificate of standard valid until: _____ 		
Wavelength accuracy at 486 nm / D₂E	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Standard: internal – D₂E lamp of spectrophotometer Standard-ID: n.a. <p>Certificate of standard valid until: n.a.</p>		
Wavelength accuracy at 656 nm / D₂E	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Standard: internal – D₂E lamp of spectrophotometer Standard-ID: n.a. <p>Certificate of standard valid until: n.a.</p>		
Wavelength reproducibility	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Standard: Hellma secondary standards for calibration of spectrophotometers Filter material: Holmium oxide Catalogue Number: 666-000 Set Number: _____ Certificate of standard valid until: _____ 		
Stray light at 198 nm	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Potassium chloride solution Standard-ID:: _____ Charge-Number: _____ Certificate of standard valid until: _____ 		

Validated performance parameter	complies	does not comply
Stray light at 220/240 nm	<input type="checkbox"/>	<input type="checkbox"/>
▪ Sodium iodide solution		
▪ Standard-ID:: _____		
▪ Charge-Number: _____		
▪ Certificate of standard valid until: _____		
Stray light at 340 nm	<input type="checkbox"/>	<input type="checkbox"/>
▪ Sodium nitrite solution		
▪ Standard-ID:: _____		
▪ Charge-Number: _____		
▪ Certificate of standard valid until: _____		
Spectral resolution	<input type="checkbox"/>	<input type="checkbox"/>
▪ Toluene solution in hexane		
▪ Standard-ID:: _____		
▪ Charge-Number: _____		
▪ Certificate of standard valid until: _____		

Data saved in protocol: _____

	complies	does not comply
Instrument validation has been correctly performed and concluded.	<input type="checkbox"/>	<input type="checkbox"/>
The device was found to comply with the performance data guaranteed by Analytik Jena AG.		

Date: _____

Signature of AJ authorized person: _____

Reviewed by user: _____

1.5 Results of Validation of Metrological Properties for Compliance with European Pharmacopoeia

Serial no: _____

Validated performance parameter	complies	does not comply
Baseline deviation	<input type="checkbox"/>	<input type="checkbox"/>
▪ Standard: none		
▪ Standard-ID: n.a.		
▪ Certificate of standard valid until: n.a.		
Baseline noise	<input type="checkbox"/>	<input type="checkbox"/>
▪ Standard: none		
▪ Standard-ID: n.a.		
▪ Certificate of standard valid until: n.a.		
Wavelength accuracy	<input type="checkbox"/>	<input type="checkbox"/>
▪ Standard: Hellma secondary standards for calibration of spectrophotometers		
▪ Filter material: holmium oxide		
▪ Catalogue Number: 666-000		
▪ Set Number: _____		
▪ Certificate of standard valid until: _____		
Photometric accuracy UV range	<input type="checkbox"/>	<input type="checkbox"/>
▪ Potassium dichromate-solution 60 mg/l		
▪ Standard-ID:: _____		
▪ Charge-Number: _____		
▪ Certificate of standard valid until: _____		
Photometric accuracy at 430 nm	<input type="checkbox"/>	<input type="checkbox"/>
▪ Potassium dichromate-solution 600 mg/l für 430 nm		
▪ Standard-ID:: _____		
▪ Charge-Number: _____		
▪ Certificate of standard valid until: _____		

Validated performance parameter	complies	does not comply
Stray light at 198 nm	<input type="checkbox"/>	<input type="checkbox"/>
▪ Potassium chloride solution		
▪ Standard-ID:: _____		
▪ Charge-Number: _____		
▪ Certificate of standard valid until: _____		

Data saved in protocol: _____

	complies	does not comply
Instrument validation has been correctly performed and concluded.	<input type="checkbox"/>	<input type="checkbox"/>
The device was found to comply with the metrological properties for compliance with European Pharmacopoeia.		

Date: _____

Signature of AJ authorized person: _____

Reviewed by user: _____

1.6 *Faults ascertained in instrument validation*

In this section, faults that occurred during instrument validation shall be put down in writing. If possible, also the dates of the repair and the full name(s) of the qualified personnel of Jena AG present during installation shall be entered. If the tests did not show any faults, the qualified personnel of Analytik Jena AG as well as the responsible head of the laboratory or his deputy shall countersign the statement of this condition.

Faults occurring	Comment	Assigned service date	Competent person	Initials	Date

Repair of faults occurring	Comment	Additional assigned service date	Competent person	Initials	Date

complies
does not comply

All faults that occurred during instrument validation are documented in section 1.6.

The SPECORD® PLUS did not show any further faults during validation.

☐
☐

Date: _____

Signature of AJ authorized person: _____

Reviewed by user: _____

1.7 Conclusion of operational qualification

	complies	does not comply
Operational qualification has been performed and concluded correctly.	<input type="checkbox"/>	<input type="checkbox"/>

The purpose is to declare that the system does fulfill the requirements on metrological properties for compliance with manufacturer's technical specification or with the European Pharmacopoeia.

Date: _____

Signature of AJ authorized person: _____

Reviewed by user: _____

The SPECORD® PLUS is hereby released by the qualified signatories for application.

Date: _____

Signature of AJ authorized person: _____

Reviewed by user: _____

2. List of accompanying documents

1. Protocol

2. Copy of certificate: Standards for calibration of wavelength accuracy and wavelength reproducibility

Catalogue No.: 666-000

Set No.:

3. Copy of certificate: Potassium dichromate solution 60 mg/l

Standard-ID:

Charge No:

4. Copy of certificate: Potassium dichromate solution 600 mg/l für 430 nm

Standard-ID:

Charge No:

5. Copy of certificate: Potassium chloride solution

Standard-ID:

Charge No:

6. Copy of certificate: Sodium iodide solution

Standard-ID:

Charge No:

7. Copy of certificate: Sodium nitrite solution

Standard-ID:

Charge No:

8. Copy of certificate: Toluene solution in hexane

Standard-ID:

Charge No:

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