

Part No.	Description
1000-SV	Solvent Bottle 1000ml
1000-WV	1000ml Wash Vial with Connection Piece \varnothing 6mm for PAL System Fast Wash Station
100-WV	100ml Solvent Bottle for Large Volume Wash Station (PAL WashLarge)
500-WV	500ml Wash Vial with Connection Piece 6mm for PAL System Fast Wash Station
7990-005	Stator for PD7991
7991-999	RheBuild Kit for PD7991
APR Control-GC	Control Board for GC PAL
APR Control-HTC	Control Board for HTC PAL
APR Control-LC	Control Board for LC PAL
APR Control-xt	Control Board for all PAL Models
APR CPU.C.H	CPU Board for PAL System
APR MOTIO.E.K	Motor Driver and Input/Output Processing Board for PAL System
BAT VL2330	Backup Battery for PAL CPU/Control Board (1pc)
BN4851 M3x20	Screws for Y-Axis Side Covers
BN4851 M4x25	Screws for X-Axis Side Covers
C-0C46	Stator for C2H-0346D-CTC
C2-00R6	Rotor for C2V & C2-0006D-CTC
C2-03R6	Rotor for valve C2V & C2-0346D-CTC
C2-10R0H	Rotor for C2VH-1000D-CTC
C2-10R6	Rotor for C2V-1006D-CTC
C2-13R0H	Rotor for C2VH-1340D-CTC
C2-13R6	Rotor for C2V-1346D-CTC
C2-20R6	Rotor for C2V-2006D-CTC
C2-23R6	Rotor for C2V-2346D-CTC
C2-Adptr	Adapter to Mount C2 Valve on a PAL VlvDrv (MV 10-00)
C2V-0006D-CTC-K	6 port injection valve Cheminert 5000 psi 75°C N60 ID 0.15 mm
C2V-0346D-CTC-K	6-port Injection Valve Cheminert 5000 psi 75°C PAEK ID 0.15 mm
C2V-0C06	Stator for C2V-0006D-CTC
C2V-0C46	Stator for C2V-0346D-CTC
C2V-1006D-CTC-K	6-port Cheminert Injection Valve 0.25mm bore incl. Needle Guide, Needle Seal G22, Kit LCVlv
C2V-1346D-CTC-K	6-port Cheminert Injection Valve PAEK 0.25mm bore incl. Needle Guide, Needle Seal G22, Kit LCVlvP
C2V-1C00H	Stator for C2VH-1000D-CTC
C2V-1C06	Stator for C2V-1006D-CTC
C2V-1C40H	Stator for C2VH-1340D-CTC
C2V-1C46	Stator for C2V-1346D-CTC
C2V-2C06	Stator for C2V-2006D-CTC
C2V-2C46	Stator for C2V-2346D-CTC
C2V-3606D-CTC-K	6-port Cheminert Injection Valve 0.75mm bore incl. Needle Guide, Needle Seal G19, Kit LCVlv
C2V-3C06	Stator C2V-3006D-CTC
C2VH-1000D-CTC-K	10-port Cheminert Injection Valve 0.25mm bore incl. Needle Guide, Needle Seal G22, Kit LCVlv
C5-1C28	Stator for C5F-1004D-CTC

Part No.	Description
C5F-1004D-CTC	Selector Valve 8port 0.25mm, 1000psi
C5F-10R4	Rotor for Selector Valve C5F-1024D-CTC and C5F-1004D-CTC (N60 sst)
C72-16R0	Rotor for HPLC Injection Valve C82VX-1670D-CTC and C72VX-1690D-CTC
C72-16R6	Rotor for C82VX-1676D-CTC and C82VX-1696D-CTC
C72-36R6	Rotor Valcon-H for C2V-3606D-CTC and C2V-3006D-CTC
C72-66R6	Rotor for C72VX-6696D-CTC, C72VU-6696D-CTC and for C72VU-6676D-CTC
C72V-1C70	Stator for C72VX-1670D-CTC
C72V-1C76	Stator for C72VX-1676D-CTC
C72V-6C76	Stator for C72VU-6676D-CTC
C72X-6670D-CTC	10-port Valve Cheminert 15'000 psi 75°C ID 0.15 mm (requires PAL 1VlvDrv-D High Torque Version)
C82VU-6676D-CTC-K	6 port injection valve Cheminert 18'500 psi 50C liq, ID 0.15 mm incl. 2ul and 20ul loop. 20ul loop already mounted. incl. Needle Guide, Needle Seal, Kit LCVlv
C82VX-1670D-CTC-K	10 port injection valve Cheminert 15'000 psi 75°C ID 0.25 mm (requires PAL 1VlvDrv-D high torque version)
C82VX-1676D-CTC-K	6-port Cheminert Injection Valve 15'000psi 75°C ID 0.25 mm
Cbl R4LX-1300	Cable for PAL-xt Wash Station, Round Connector (Length: 1300 mm)
Cbl R4LX-700	Cable for Dual Fast Wash Station for LC & HTC PAL
Cbl RS14R-250	Daisy-Chain Cable 14p shielded, MiniRibbon connectors, 250mm long (Connection of MultiposVlvDrv type 2)
Cbl RS14R-850	Cable 14p shielded, MiniRibbon connectors, 850mm long (Connection of MultiposVlvDrv Type 2)
Cbl RS20R-1300	Cable 20p shielded, MiniRibbon connectors, 1300mm long (Connection of valve drive and incubation heater)
Cbl RS20R-300	
Cbl RS20R-760	Cable 20p shielded, MiniRibbon connectors, 760mm long (Connection of valve drive and incubation heater)
Cbl RS2MR-2500	Power Cord for MultiposVlvDrv MV 03-01
Cbl RS3JR-1200	Signal Cable for MultiposVlvDrv MV 03-01, 1200mm, for HTX PAL
Cbl RS3JR-850	Signal Cable for MultiposVlvDrv MV 03-01
Cbl RS3M-2000	Power Cable 3-pole, 2m for PAL System (Connection between Power Supply and PAL)
Cbl RS4CO-3000	PAL Interface Cable 3m
Cbl RS4EX-1300	Cable for Dual Fast Wash Station HTX PAL
Cbl RS4EX-800	Cable for Dual Fast Wash Station for HTS and Combi PAL
Cbl RS9B-3000	Link Cable RS-232 with Connector DB9 (Length: 3m) (Connection PAL - PC)
Cbl RS9B-6000	Link Cable RS-232 with Connector DB9 (Length: 6m) (Connection PAL - PC)

Part No.	Description
Cbl SS8J-700	Spiral Cable 8-pole Shielded, RJ45 Connectors, 700mm long (Connection between Terminal and PAL)
CN2-4340D-CTC	10 Port 2-Position Nano Valve Connections 1/32" Bore size 0.10mm Stator wetted parts PAEK/E 75°C/5000psi liquid (without vertical port, not recommended as injection valve)
CSL100	Sample Loop 100µl for VICI Cheminert Valve 1/16", with Nuts and Ferrules
CSL10-CTC	Sample loop 10µl for VICI Cheminert valve 1/16", ID 0.25mm with nuts and ferrules
CSL1K	Sample loop 1ml for VICI Cheminert valve 1/16", ID 1.0mm with nuts and ferrules
CSL20-CTC	Sample loop 20µl for VICI Cheminert valve 1/16", ID 0.25mm with nuts and ferrules
CSL250	Sample loop 250µl for VICI Cheminert valve 1/16" with nuts and ferrules
CSL2-CTC	Sample loop 2µl for VICI Cheminert valve 1/16", ID 0.125mm with nuts and ferrules
CSL2K	Sample loop 2ml for VICI Cheminert valve 1/16", ID 1.0mm with nuts and ferrules
CSL50	Sample loop 50µl for VICI Cheminert valve 1/16" with nuts and ferrules
CSL500	Sample loop 500µl for VICI Cheminert valve 1/16" with nuts and ferrules
CSL5-CTC	Sample loop 5µl for VICI Cheminert valve 1/16", ID 0.25mm with nuts and ferrules
CSL5K	Sample loop 5ml for VICI Cheminert valve 1/8" with 1/16" ends, ID 2.1mm with nuts and ferrules
CV-3315	1/4-28 Waste Check Valve, 0.2bar
CV-3345	Check Valve 10-32 to 10-32, 1.0bar
CZSL10PK	Sample loop PEEK 10µl for VICI Cheminert valve 1/16" with nuts and ferrules
CZSL20PK	Sample loop PEEK 20µl for VICI Cheminert valve 1/16" with nuts and ferrules
CZSL2PK	Sample loop PEEK 2µl for VICI Cheminert valve 1/16" with nuts and ferrules
CZSL5PK	Sample loop PEEK 5µl for VICI Cheminert valve 1/16" with nuts and ferrules

Part No.	Description
DC10WK-CTC-K	LC-Valve 10 Port 2 positions 5000 psi 50°C incl. Needle Guide, Needle Seal and Kit LCVlv
DC6WK-CTC-K	LC-Valve 6 Port incl. Accessory 5000 psi 50°C incl. Needle Guide, Needle Seal and Kit LCVlv
DCI4WK.5/1-CTC-K	LC-Valve 4 Port Internal sample loop 0.5/1.0 µl 5000 psi 50°C incl. Needle Guide, Needle Seal and Kit LCVlv
ITEX TrapTXTA	ITEX Trap Tenax TA 80/100 mesh
ITEX TrapTXTA3	ITEX Trap Tenax TA 80/100 mesh, 3pcs
ITEX-2 HT	ITEX-2 Trap Heating Unit
ITEX-2 TrapTXTA	ITEX-2 Trap Tenax TA 80/100 mesh
ITEX-2 TrapTXTA-3	ITEX-2 Trap Tenax TA 80/100 mesh, set of 3pcs
Kit Combi-xt	Kit XT Upgrade for Combi PAL System
Kit CStkScrews	Kit of replacement screws for Stack Cooler front cover
Kit DrawFront12MT	Kit, Drawer Fronts 31mm for Stack Cooler 12MT Consisting of: 6 pcs. Drawer Front Covers with connecting plate mounted 1 pc. Kit CStkScrews
Kit DrawFront2DW	Kit, Drawer Fronts 63mm for Stack Cooler 2DW Consisting of: 1 pc Drawer Front Cover with connecting plate mounted 1 pc Kit CStkScrews
Kit DrawFront6DW	Kit, Drawer Fronts 63mm for Stack Cooler 6DW Consisting of: 3 pcs. Drawer Front Covers with connecting plate mounted 1 pc. Kit CStkScrews
KIT Flush LHX	Gas Flush Kit for LHX PAL, field upgrade kit
Kit FlushVlv-xt	Kit Gas Flush Valve for PAL COMBI-xt and PAL LHX-xt models
KIT FWash1000	1000ml Solvent Kit consisting of: 1pc Bottle Holder bracket incl. screws 2pcs 1000ml Solvent Bottles
Kit GC-xt	Kit XT Upgrade for GC PAL System
Kit HTC-xt	Kit XT Upgrade for HTC PAL System
Kit HTS-xt	Kit XT Upgrade for HTS PAL System
Kit LCD Repl	Replacement Kit for PAL Control Terminal, LCD-Module consisting of: LCD-Module 128x128 mm Flat Cable Screws, Spacers, Star Washers
KIT LCVlv	Kit Waste-Tubing for Valve
KIT SealCap	10 Caps and 10 Seals for 100-WV Solvent Bottle
KIT SealFlush	Kit Sealing Gaskets for Pressure Regulator, 10 pcs
Kit StkRollsSSt	Kit Stainless Steel Rollers with Screws for Stack Drawer (set of 12 pcs.)
KIT WASH 10-CV	Kit wash vial 10-CV for standard wash station 10 vials, 10 caps, 10 seals
KQ2L23-M3G	Elbow Adapter for Gas Flush Tube

Part No.	Description
M-3ALU-3	Gas Tube Adapter, 90°
MB 20-00B	Holder Assembly for PAL Control Terminal
MC 30-10B	Plastic Tray Cover to use PAL Tray1ml in PAL TrayCooler or PAL LiqCooler
MC 30-11C	Plastic Tray Cover to use PAL Tray2ml in PAL TrayCooler or PAL LiqCooler
MC 30-14A	Plastic Tray Cover to use 1 MT/DW in PAL TrayCooler or PAL LiqCooler
MC 50-01A	Adapter plate to use 96 well MT/DW in PAL TrayCooler
MM 01-01F	Fast Wash Module for two Solvents for Needles Gauge 22. Without Holder and Cable.
MM 012-01B	Active Wash Module G22
MM 015-01A	Tube Connector from Pressure Regulator to Tubing, 1/8"
MM 03-01A	Pressure regulator 0 - 2.5 Bar (0-35psi), including pressure gauge and fittings
MM 06-00A	Flow-Cell for PAL System, consisting of: 1 pc Flow-Cell Stainless Steel 316 with connectors Swagelok 1/4" 1 pc Septa
MM 09-01B	Fitting assembly PAL Adapter / Tube Connector for Pressure Regulator
MM 11-00B	Valve Unit for Fast Wash Module for two solvents (Spare Part for Fast Wash Module MM 01-00 Rev. A - D)
MM 30-19A	Viewing glass OD 20mm for fast wash station
MM 30-21B	Glass tube for fast wash station with inner diameter 0,8mm, length 57mm
MM 30-36A	Dilutor syringe plunger fixing screw
MM 90-02A	3-way Dilutor Valve, PCTFE
MM 90-03A	3-way valve PTFE for Pal Dilutor
MM 91-01D	PumpVlv 24V konf., PTFE-Perlast /FA7
MP 50-031C	Cooling plate 32x20 for PAL LiqCooler2 and PAL TrayCooler2
MP 52-01A	MALDI Target Adapter for 2 pcs. Waters 96/384 Targets
MP 52-02B	MALDI Target Adapter for 2 pcs. ABI Opti-TOF Plates or ABI 4700/Voyager Plates
MP 52-04A	MALDI Target Adapter for 1 pcs. Bruker AnchorChip 384 MT Format
MP 52-05A	MALDI Target Adapter for 1 pcs. ABI/SCIEX Opti-TOF (123x81mm)
MR 21-00D	Tray Holder 76mm for Standard Vial Trays
MR 22-00D	Tray holder 114mm for standard vial trays
MSB6.3AT/10	Fuse 6.3AT for PAL CPU and Control Boards, pkg of 10pcs
MSH 01-00B	Syringe heater 1ml for PAL (ID=27)
MSH 02-00B	Syringe heater 2.5ml for PAL (ID=28)
MSH 03-00B	Syringe heater 5.0ml for PAL (ID=29)
MSH 30-23A	Clamp for Syringe Heater Cartridge
MSpoTip3	MALDI Spotting Tip 3 pcs
MSZ 01-00A	Magnetic Adapter Ring for 20ml vials
MSZ 02-01A	Microtiter Plate Foil Cutter for needles Gauge 22 max.
MV 30-12C	Needle Guide, Stainless Steel, Gauge 22 for Valco Valve Type C or WK
MV 30-16B	Needle Guide PEEK, Gauge 22, for Valco Valve
MV 30-52B	Needle guide, stainless steel, gauge 19, for Valco valve type C or WK
MV 36-01E	Vlv-Adapter for Vici/ Valco valves
MV 36-02A	Rheodyne Vlv-Adapter ø32mm
MX 20-15B	Metal Angle Bracket for Ribbon Cable
MX 30-34B	Blind Cover for GC PAL
MX 30-42C	Blind Cover for LHX PAL

Part No.	Description
MX 30-48-3A	PALxt X-Axis Side Cover Right hand side
MX 32-00C	Plexiglas Safety Guard for PAL80
MX 33-00C	Plexiglas Safety Guard for PAL50
MX 36-00B	Plexiglas Safety Guard for PAL120
MX 37-00C	Screw Kit for Safety Guard
MX 52-00B	Grounding Conductor for X/Y Carriage
MZ 01-00F	Injection Unit for HTS PAL with Needle Guide, Gauge 19
MZ 017-00F	Injection Unit for HTS or HTC PALxt with Needle Guide, Gauge 19
MZ 018-00D	Injection unit for GC PALxt
MZ 019-00E	Injection unit for Combi PALxt
MZ 20-11B	Lower Needle Guide Gauge22, transport magnets installed
MZ 20-14B	Mechanical Stop for Needle Guide
MZ 20-15A	Adapter for Short Tension Cord (Z-Axis)
MZ 20-45A	Lower Needle Guide Gauge19 without transport magnets with chemical resistant coating
MZ 20-46A	Upper Needle Guide Gauge19 with chemical resistant coating
MZ 23-01B	Needle Guide Replacement Kit for HTS/HTC/LC PAL consisting of: - Lower needle guide G19 - Stack opening magnet - Guide rod and spindle - Stopper - Bearing with nut
MZ 23-02A	Needle Guide Replacement Kit for Combi PAL consisting of: - Lower needle guide with magnets - Stack opening magnet - Guide rod and spindle - Stopper - Bearing with nut
MZ 32-00B	Safety Shield for PAL Injection Unit
MZ 50-00B	Ribbon Cable Z-Axis, 500 mm
MZ 50-01A	Ribbon Cable for ITEX Z-Axis, 560mm
MZ 51-00A	Ribbon Cable Z-Axis, 450mm
NDL S-22-3	Needle gauge 22 PST 3 for syringes 5µl - 100µl (3 pcs per pack) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
NDL S-22S-3	Needle gauge 22S PST 3 for syringes 5µl - 100µl (3 pcs per pack) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
NDL S-23-AS	Needle gauge 23 PST AS for syringes 5µl - 100µl (3 pcs per pack)
NDL S-23S-AS	Needle gauge 23S PST AS for syringes 5µl - 100µl (3 pcs per pack)

Part No.	Description
NDL S-26-AS	Needle gauge 26 PST AS for syringes 5µl - 100µl (3 pcs per pack) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
NDL S-26S-AS	Needle gauge 26S PST AS for syringes 5µl - 100µl (3 pcs per pack) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL 1VlvDrv	PAL Single Valve Drive Module for VICI-Valco LC Valves, consisting of: 1 pc Valve Drive with bracket 1 set Electrical connection cables (requires free AUX connector on power supply and LC valves depending on application)
PAL 1VlvDrv-D	PAL Single Valve Drive Module for VICI-Valco LC Valves, direct mounting, consisting of: 1 pc Valve Drive with bracket (High Torque Version) 1 set Electrical connection cables (requires free AUX connector on power supply and LC valves depending on application)
PAL 2VlvDrv	PAL 2 Valve Drive Module, consisting of: 2 pcs Valve Drive with bracket 1 set Electrical connection cables (requires free AUX connector on power supply and LC valves depending on application)
PAL 3Ferrule	Flangeless Ferrule 3x1/16" PTFE
PAL 3VlvDrv	PAL 3 Valve Drive Module, consisting of: 3 pcs Valve Drive with bracket 1 set Electrical connection cables (requires free AUX connector on power supply and LC valves depending on application)
PAL 3xSolv100	Solvent Reservoir, consisting of: 1 pc Holder for 3 Solvent Vials, 3 pcs Solvent Vial 100 ml, incl. Cap and Seal
PAL 4VlvDrv	PAL 4 Valve Drive Module, without valves, consisting of: 4 pcs MultiPos Valve Drive with bracket 1 set PEEK Tubing Kit ID 0.12, 0.25, 0.50 1 pc PEEK Manifold 1 to 4 port 1 pc PAL NdISeal (pk of 10) 1 pc PTFE tubing waste line 1 set Electrical connection cable
PAL 4VlvDrv-C2V6	PAL 4 Valve Module, consisting of: 4 pcs MultiPos Valve Drive with bracket 4 pcs VICI Valco 6-port valve type Cheminert 4 pcs Sample loop 20µl 1 set PEEK Tubing Kit ID 0.12, 0.25, 0.50 1 pc PEEK Manifold 1 to 4 port 1 pc PAL NdISeal (pk of 10) 1 set Electrical connection cable
PAL AgiORing	Driving belt for PAL Agitator 6 x 20ml (Set of 6 pcs)
PAL AWORing	Perfluor O-Ring for Active Wash Station, set of 2 pcs
PAL BCAdapter	Barcode Adapter for PAL-xt System including cable (Requires PAL firmware version 4.1.2 or higher)

Part No.	Description
PAL BCReader	Barcode Reader for PAL System Laser scanner for barcode labels on 2mL / 10mL / 20mL vials with magnetic caps, including adapter and connection cables. (Suitable for PAL and PAL-xt Systems)
PAL CblSerPrtr	Cable and adapter to connect a PAL System to a serial printer with DB25 connector
PAL CC-Upgrd	Cycle Composer Upgrade Version 1.6 (An earlier version of Cycle Composer must have been installed)
PAL ColSel6	Column Selector Valve for up to 6 columns
PAL CycCompCD	Cycle Composer Remote Control Software for PAL System CD ROM containing: Cycle Composer standalone version (Requires PAL Firmware 2.2 or higher and Windows XP/ VISTA)
PAL CycEdit	Cycle Editor for CTC Instrument Control Components
PAL DilAspKit	Aspiration Tubing Kit, consisting of: 1 pc Tube PFA 1 pc 28mm VitraPOR Glass Frit 40um pore size 1 pc Plug with Feed-through Holes
PAL Dilutor	PAL Dilutor Option, consisting of: 1 pc Dilutor module 1 pc Connection cable 1 pc Dilutor syringe 2.5ml 1 pc Transfer tube 1/16" 1 pc Solvent bottle 1000ml 1 pc Aspirating tube 1/8" The sideport syringe kit is not included. One of the following parts is needed: PAL SyrLCSP80µl PAL SyrLCSP20µl PAL SyrGCSP80µl PAL SyrGCSP20µl (Needs special injection unit and firmware version 2.3 or higher)
PAL Dilutor-HTX	PAL Dilutor Option, consisting of: 1 pc Dilutor module 1 pc Connection cable 1 pc Dilutor syringe 2.5ml 1 pc Transfer tube 1/16" 1 pc Solvent bottle 1000ml 1 pc Aspirating tube 1/8" The sideport syringe kit is not included. One of the following parts is needed: PAL SyrLCSP80µl PAL SyrLCSP20µl PAL SyrGCSP80µl PAL SyrGCSP20µl (Needs special injection unit and firmware version 2.3 or higher)
PAL DilWasher	PTFE Dilutor washer, set of 10 pcs

Part No.	Description
PAL DLW-2 Option	Dynamic Load and Wash Option for fast and clean LC Cycles, consisting of: 1 pc DLW-2 Injection Adapter with sample holding loop and syringe 100ul 1 pc Wash Station 1 pc Wash Solvent Pump Station with 2 active micro pumps 2 pc 1 Liter Wash Solvent bottles 2 pc Solvent bottle transfer line including solvent filter 1 pc System CD ROM DLW including Cycles Requires but does not include XT-Upgrade for PAL and Firmware 4.X
PAL DLW-2 UpgrdKit	PAL DLW-2 Upgrade Kit, including: DLW-2 Syringe Holder Plate DLW-2 Actuator Control PCB DLW-2 Needle Holder
PAL DLW-2-HTC-xt	Dynamic Load and Wash Option including HTC-xt Upgrade Kit, consisting of: 1 pc DLW-2 Injection Adapter with sample holding loop and syringe 100ul 1 pc Wash Station 1 pc Wash Solvent Pump Station with 2 active micro pumps 2 pc 1 Liter Wash Solvent bottles 2 pc Solvent bottle transfer line including solvent filter 1 pc System CD ROM DLW including Cycles 1 pc Kit HTC-xt (Control Board -xt for PAL System - Firmware 4.X)
PAL DLW-2-HTS-xt	Dynamic Load and Wash Option including HTS-xt Upgrade Kit, consisting of: 1 pc DLW-2 Injection Adapter with sample holding loop and syringe 100ul 1 pc Wash Station 1 pc Wash Solvent Pump Station with 2 active micro pumps 2 pc 1 Liter Wash Solvent bottles 2 pc Solvent bottle transfer line including solvent filter 1 pc System CD ROM DLW including Cycles 1 pc Kit HTS-xt (Control Board -xt for PAL System - Firmware 4.X)
PAL DLW-2Loop	PAL DLW-2 Loop incl. PEEK hex-head nut and lock nut for needle adapter
PAL DrvEmp	PAL Driver for Waters Empower (CD)
PAL DrvEmp3	PAL Driver for Waters Empower 3 (CD)
PAL FibCond	SPME Fiber Conditioning Station, consisting of: 1 pc heater up to 350°C with connection cable and bracket 40mm 1 pc flush gas connection 1 pc fitting for CombiPAL flush gas regulator 1 pc alternate bracket 14mm
PAL FibCondTube	Gas tube Fiber Conditioner to Pressure Regulator, including SwageLok fittings and flow reduction
PAL FlexBandKit	PAL Flexband for standard PAL50/80 Models, 1pc
PAL FlexBandKit2	PAL Flexband for PAL Models 120cm length, single Z-Axis installed, 1pc
PAL FlowCell	Flow-Cell for PAL System to accommodate up to 6 flow cells, consisting of: 1 pc Holder 88mm 1 pc Flow-Cell Stainless Steel 316 with connectors Swagelok 1/4" 5 pcs Inlet Septa

Part No.	Description
PAL GC-QDoc	Instrument Qualification for GC PAL and Combi PAL, consisting of: 1 pc Logbook binder 1 pc Documentation IQ procedure 1 pc Documentation OQ procedure
PAL GC-ReQ	Instrument Requalification for GC and Combi PAL, consisting of: 1 pc Documentation OQ procedure
PAL ICC-CE	CTC Instrument Control Components for PAL System including Cycle Editor license (Requires PAL Firmware 2.3 or higher and Windows 2000 or higher)
PAL Incub6x20	Incubator for vials 10ml or 20ml, with orbital shaker, temperature up to 200°C
PAL Ins20/10ml	Kit with 6 inserts 10ml for PAL Incub6x20
PAL Ins20/2ml	Kit with 6 inserts 2ml for PAL Incub6x20
PAL ITEX-2Option	ITEX-2 Option for Combi PAL, consisting of: 1 pc 1.3 ml ITEX Syringe with M7 x 0.5 Fitting 1 pc Replacement plunger 1.3 ml 2 pcs ITEX-2 trap TENAX TA 80/100 mesh incl. O - Ring 1 pc Trap Heater incl. electrical connections 1 pc Syringe Heater incl. Plunger holder 1 pc Syringe Heater side bracket 1 pc CD Rom with ITEX software (requires PAL LHS2 and Cycle Composer)
PAL ITEX-2Opt-LHX	ITEX-2 Option for PAL LHX, consisting of: 1 pc 1.3 ml ITEX Syringe with M7 x 0.5 Fitting 1 pc Replacement plunger 1.3 ml 2 pcs ITEX-2 trap TENAX TA 80/100 mesh incl. O - Ring 1 pc Trap Heater LHX incl. electrical connections 1 pc Syringe Heater incl. Plunger holder 1 pc Syringe Heater side bracket 1 pc Mounting kit LHX 1 pc CD Rom with ITEX software (requires PAL LHX and Cycle Composer)
PAL KitFlush-Ext800	Gas Flush Kit external for Combi PAL 800mm, field installation kit
PAL LC-QDoc	Instrument Qualification for HTS, HTC and LC PAL, consisting of: 1 pc Logbook binder 1 pc Documentation IQ procedure 1 pc Documentation OQ procedure
PAL LC-ReQ	Instrument Requalification for HTS, HTC and LC PAL, consisting of: 1 pc Documentation OQ procedure

Part No.	Description
PAL LHSUpgrd	Headspace Upgrade for LHS0 Combi PAL Liquid only version, consisting of: 1 pc Incubator for 6 vials 10/20ml, orbital shaker, up to 200°C 1 pc Syringe heater 2.5ml 2 pc Headspace syringe 2.5ml 1 pc Sample tray 32x10/20ml 1 pc Trayholder 114mm 1 pc Pressure regulator for flush gas 1 pc Vial transport magnet 1 pc Vial transport teaching kit 6 pc Adapter for 10ml vials 1 pc PAL System Software CD
PAL LiqCooler	Liquid tray cooler 4°C to 70°C, for one standard sample tray 2ml, consisting of: 1 pc Cooling unit 1 pc Cover for 2ml tray (excluding sample tray and heating/cooling circulator)
PAL LiqCooler2	Liquid tray cooler 4°C to 70°C for one standard sample tray 20 ml consisting of: 1 pc Cooling unit 1 pc Cooling plate for 20ml vials (excluding heating/cooling circulator)
PAL LubKit	PAL Lubrication Kit including brush
PAL MALDIOpt	PAL MALDI Option, consisting of: 1 pc Tool parking bracket 1 pc MALDI spotting tool 1 pc Tool holder 1 pc Waste tube 1 pc Fitting accessories 1 pc Special firmware
PAL MHETool	MHE Tool for Combi PAL, consisting of 1 pc MHE Tool 1 pc MHE Parkstation 1 pc Needle MHE Gauge 22/5 1 pc MHE Tool CD (Firmware 3.X backup file) (requires PAL LHS2)
PAL MotPLG	PAL Stepper Motor Plunger, Kit (For Injection Rev.B or higher only)
PAL MotZ	PAL Stepper Motor Z-Axis, Kit
PAL MR-260mm-xt	Standalone support 260.4mm
PAL MR-5890-xt	Mounting hardware and interconnection cable to install a PAL / PALxt on an Agilent 5890 GC
PAL MR-6850-Dual	Add-on mounting hardware to install a PAL80 on two Agilent 6850 GC
PAL MR-7890-MQM-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Agilent 6890 / 7890 Micromass Quattro GC System
PAL MR-7890-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Agilent 6890 / 7890 GC

Part No.	Description
PAL MR-B3800/B450-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Bruker 3800 GC or 450-GC
PAL MR-Bruker-436-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Bruker GC 436
PAL MR-Bruker-451-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Bruker GC 451
PAL MR-Bruker-456-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Bruker GC 456
PAL MR-DANI-Master-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a DANI Master GC
PAL MR-FOCUS-xt	Mounting hardware 215mm and interconnection cable to install a PAL or PALxt on a FOCUS GC
PAL MR-PEC600-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a PERKIN ELMER GC CLARUS 600
PAL MR-PEXL	Mounting hardware and interconnection cable to install a PAL80 on a PERKIN ELMER GC AS-XL or CLARUS 500
PAL MR-S14B	Mounting hardware and interconnection cable to install a PAL80 on a Shimadzu GC-14B
PAL MR-S17A-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Shimadzu GC-17A
PAL MR-S2010-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Shimadzu GC-2010
PAL MR-S2014-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Shimadzu GC-2014 incl. GC upper cover
PAL MR-S2025-xt	Mounting hardware and interconnection cable to install a PALxt on a Shimadzu GC-2025
PAL MR-Trace1310GC-xt	Mounting hardware 200mm and interconnection cable to install a PAL or PALxt on a Trace 1310 GC or 1300 GC
PAL MR-TRACE-OC-xt	Mounting hardware 150mm and interconnection cable to install a PAL or PALxt on a TRACE GC 2000 On column .Without modification kit for GC On-Column Injector.
PAL MR-TRACE-SSL-xt	Mounting hardware 215mm and interconnection cable to install a PAL or PALxt on a TRACE GC 2000
PAL MR-V3800/V450-xt	Mounting hardware, dual tray holder and interconnection cable to install a PAL or PALxt on a Varian 3800 GC or 450-GC
PAL MR-V3900/V43X-xt	Mounting hardware and interconnection cable to install a PAL or PALxt on a Varian 3900 GC or 43X-GC
PAL MT4Holder	LC PAL Trayholder for 4 standard microplates or 4 deepwell plates or 4 x 54 2ml vials (no trays included)
PAL MTHolder	Tray holder 76mm for two Microtiter or Deepwell plates
PAL MZAgiOpen	Bumper for PAL Injection Unit, Kit
PAL MZCovCbl	Cover for Motors and Ribbon Cable Z-Axis, Kit (Rev. B or higher)
PAL MZCovCtrl	Cover for Control Module Z-Axis, Kit
PAL MZCovTop	Top Cover for Z-Axis, Kit
PAL MZCovTop-xt	Top Cover for Z-Axis, Kit (PAL-xt)
PAL MZCtrl	PCB Assembly for PAL Injection Unit, Kit (Rev. D or higher)
PAL MZTRack300	Toothed Rack, 300mm, Kit

Part No.	Description
PAL MZTRack350	Toothed Rack, 350mm, Kit
PAL MZZMag	Switching Magnet for Z-Sensor, Kit
PAL NdIBlkMag	Solenoid for Needle Guide Blocking Assembly, Kit
PAL NdlSeal	Needle seal gauge 22 for Valco valve (used together with needle guide MV 30-12 or A200S-1551) Pack of 10 pcs
PAL NdlSeal-19	Needle seal gauge 19 for Valco valve (used together with needle guide MV 30-52) Pack of 10 pcs
PAL NdlSealP	Needle seal PEEK gauge 22 for Valco PEAK valve (used together with needle guide MV 30-16) Pack of 10 pcs
PAL NdlSealP-19	Needle seal PEEK gauge 19 for Valco PEAK valve (used together with needle guide MV 30) Pack of 10 pcs
PAL NdlSealR	Needle seal gauge 22 for Rheodyne Valve PD7991 and PD7921 (used together with needle guide MV 30-12 or A200S-1551) Pack of 10 pcs
PAL ORingFWS	O-Ring Perfluor white Pack of 4 pcs
PAL OutExpBox	Output Expansion Box for PAL System 8 x Relay Contact 8 x 24V (P tot = 12W) consisting of: 1 pc Output Expansion Box 1 pc Cable DSub25M/F 1 pc Cable Power 36V (Can be used together with an HTS or Combi PAL. Needs PAL Firmware Version 2.4 or higher)
PAL PMKit1	Preventative Maintenance (PM) Kit for PAL HPLC Technique consisting of: 1 pc PAL Lubrication Kit, incl. brush 1 pc Tension Cord 280 mm 1 pc Tension Cord 90 mm 1 pc Needle Seal for LC-Valve 1 pc PM Documentation
PAL PMKit2	Preventative Maintenance (PM) Kit for PAL GC Technique consisting of: 1 pc Tension Cord 280mm 1 pc Tension Cord 90 mm 1 pc Driving belt Agitator 1 pc Kit Wash 10-CV 1 pc Test Label Barcode Reader 1 pc PAL Lubrication Kit, incl. brush 1 pc PM Documentation

Part No.	Description
PAL PMKitDLW	Preventative Maintenance (PM) Kit for PAL HPLC Technique with DLW Option consisting of: 1 pc Kit PAL DLW Holding Loop (PAL DLWLoop) 1 pc DLW Needle Kit (PAL DLWndl) 1 pc PAL Lubrication Kit 1 pc PAL Brush 1 pc Tension Cord 280 mm 1 pc Tension Cord 90 mm 1 pc Needle Seal for LC-Valve 1 pc PM Documentation
PAL RCbl120	Ribbon Cable Kit for PAL X-Axis 120cm, for Single Injection Unit PAL Models
PAL RCbl50	Ribbon Cable Kit for X-Axis 50cm
PAL RCbl80	Ribbon Cable Kit for X-Axis 80cm
PAL RCblDual	Ribbon Cable Kit for PAL X-Axis 120cm, for Dual Injection Unit PAL Models
PAL SlidStopKit	Slider Stopper Assembly (Z-Axis)
PAL Stack12MT	PAL System stack for 12 microtiter plates
PAL Stack4DW	PAL System stack for 4 deepwell plates
PAL Stack6DW	PAL System stack for 6 deepwell plates
PAL Stack8MT	PAL System stack for 8 microtiter plates
PAL StkCooler12MT	Peltier cooled 12MT Stack 4°C to 40°C for 12 standard microplates including LCD display, temperature regulation ±1°C and power supply 100-240V
PAL StkCooler2DW-xt	Peltier cooled 2DW Stack 4°C to 40°C for 2 pcs Standard Microplates or 2 pcs Deepwell plates or 2 pcs PAL TrayMT2ml including 1 pc Power Supply 100-240V LED Display, temperature regulation ±1°C
PAL StkCooler-xt	Peltier cooled 6 DW Stack 4°C to 40°C for 6 standard microplates or 6 deepwell plates or 6 x 54 2ml vials including LCD display, temperature regulation ±1°C and power supply 100-240V
PAL StkDrwMag	Stack Drawer Magnet Assembly, Kit
PAL SyrGC1.2ul	Kit GC Syringe 1.2µL for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC L1.2-26P-AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrGC100ul	Kit GC Syringe 100µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G100-26S-AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Part No.	Description
PAL SyrGC10ul	Kit GC Syringe 10µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC L10-26S-AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrGC10ul-G	Kit GC Syringe 10µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G10-26S-AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrGC250ul	Kit GC Syringe 250µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G250-26-AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrGC25ul	Kit GC Syringe 25µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G25-26S-AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrGC500ul	Kit GC Syringe 500µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G500-26-AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrGC5ul	Kit GC Syringe 5µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC L5-26S-AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrGCSP20ul	Kit GC Syringe SP20µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 1 pc syringe SYRC SP20-R 3 pc removable needle NDL S-26S-AS 1 pc plunger sealing screw 1 pc perfluor o-ring CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Part No.	Description
PAL SyrGCSP80ul	Kit GC Syringe SP80µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 1 pc syringe SYRC SP80-R 3 pc removable needle NDL S-26-AS 1 pc plunger sealing screw 1 pc perfluor o-ring CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrHS1.0ml	Kit HS Syringe 1.0ml for PAL, consisting of: 1 pc syringe heater 1 pc plunger holder 2 pc syringe SYRC HS1.0-23-5 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrHS2.5ml	Kit HS Syringe 2.5ml for PAL, consisting of: 1 pc syringe heater 1 pc plunger holder 2 pc syringe SYRC HS2.5-23-5 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrHS5.0ml	Kit HS Syringe 5.0ml for PAL, consisting of: 1 pc syringe heater 1 pc plunger holder 2 pc syringe SYRC HS5.0-23-5 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLC1000ul	Kit LC Syringe 1000µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G1000-22-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLC100ul	Kit LC Syringe 100µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G100-22S-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLC10ul	Kit LC Syringe 10µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G10-22S-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Part No.	Description
PAL SyrLC2500ul	Kit LC Syringe 2500µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G2500-22-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLC250ul	Kit LC Syringe 250µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G250-22-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLC25ul	Kit LC Syringe 25µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G25-22S-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLC5000ul	Kit LC Syringe 5000µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G5000-22-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLC500ul	Kit LC Syringe 500µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRC G500-22-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLCSP20ul	Kit LC Syringe SP20µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 1 pc syringe SYRC SP20-R 3 pc removable needle NDL S-22S-3 1 pc plunger sealing screw 1 pc perfluor o-ring CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLCSP80ul	Kit LC Syringe SP80µl for PAL, consisting of: 1 pc syringe adapter 1 pc plunger holder 1 pc syringe SYRC SP80-R 3 pc removable needle NDL S-22-3 1 pc plunger sealing screw 1 pc perfluor o-ring CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Part No.	Description
PAL SyrLCX100ul	Kit LC X-Syringe 100µl for HTS/HTC/LC PAL consisting of: 1 pc Syringe Adapter 1 pc Plunger Holder 2 pc Syringe SYRX G100-22S-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLCX100ul-22	Kit LC X-Syringe 100µl-22 for HTS/HTC/LC PAL consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRX G100-22-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLCX25ul	Kit LC X-Syringe 25µl for HTS/HTC/LC PAL consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRX G25-22S-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrLCX50ul	Kit LC X-Syringe 50µl for HTS/HTC/LC PAL consisting of: 1 pc syringe adapter 1 pc plunger holder 2 pc syringe SYRX G50-22S-3 CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
PAL SyrOring1ml	10 pcs O-Ring for PAL SyrHS1.0ml
PAL SyrOring2.5ml	10 pcs O-Ring for PAL SyrHS2.5ml
PAL SyrOring5ml	10 pcs O-Ring for PAL SyrHS5.0ml
PAL SyrOringSP20	Perfluor O-Ring for Plunger Seal 20µl Sideport Syringe
PAL SyrOringSP80	Perfluor O-Ring for Plunger Seal 80µl Sideport Syringe
PAL System-SPME-Kit	PAL SPME option, consisting of: 1 pc SPME Holder Adapter 1 pc Plunger Holder 1 pc SPME Fiber Holder 1 pc SPME Fiber Assortment Kit (FIB-SEL5-S1) 1 pc SPME Performance Evaluation Mix
PAL TCord280	Tension Cord 280mm (5 pcs)
PAL TCord90	Tension Cord 90mm (5 pcs)
PAL TermCTC-xt	Control Terminal for PAL-xt System
PAL Toolkit	Tool Kit for PAL System
PAL Tray1ml	Sample tray for 200 vials 0.7/1ml
PAL Tray20ml	Sample tray for 32 vials 10/20ml or 21 vials 2ml
PAL Tray2ml	Sample tray for 98 vials 2ml or 78 vials 0.7/1ml
PAL TrayCooler2-xt	Peltier tray cooler 4°C to 70°C for one sample tray 20 ml consisting of: 1 pc Tray Cooler with legs 1 pc Cooling plate for 20ml vials 1 pc Tray cover for PAL Tray2ml 1 pc Power supply 100-240V incl. Temperature Regulator

Part No.	Description
PAL TrayCooler-xt	Peltier tray cooler 4°C to 70°C for one PAL Tray2ml (without tray) consisting of: 1 pc Tray Cooler with 84mm legs 1 pc Tray cover for PAL Tray2ml 1 pc Power supply 100-240V incl. Temperature Regulator
PAL TrayMT10ml/6	Sample Tray with Microtiter Footprint for 15 Vials 10ml Pack of 6 pcs
PAL TraySet10ml	Sample tray for 32 vials 10ml or 21 vials 2ml, including holder 76mm (may not be used for 20ml vials)
PAL TraySet1ml	Sample tray for 200 vials 0.7/1ml, including holder 76mm
PAL TraySet20ml	Sample tray for 32 vials 10/20ml or 21 vials 2ml, including holder 114mm (positioned 38mm lower than standard holder)
PAL TraySet2ml	Sample Tray for 98 Vials 2ml or 78 Vials 0.7/1ml, including Holder 76mm
PAL TraySet2ml-2	Sample tray for 98 vials 2ml or 78 vials 0.7/1ml, including holder 114mm (Holder may be alternatively used for 20ml vials)
PAL TubeDilHTX	Transfer tubing kit for Dilutor PAL LHX/HTX
PAL TubeDilutor(B)	Transfer tubing kit for Dilutor
PAL TubeDLW	PAL DLW Wash Station Tubing Kit, consisting of: 2 pcs Wire Supported Tubing and Connections
PAL TubeFlush LHX	Replacement Kit Gas Flush Tube LHX PAL
PAL TubeFlushX	Replacement Kit for Flush Tube-X in PAL80 crossrail
PAL TubeFlushXY	Replacement Kit for Gas Flush Tube for X-Y-Axes, complete Tube
PAL TubeFlushZ	Gas Flush Tube for Z-Axis, Replacement Kit
PAL TubeFWash	Tubing Kit for Fast Wash Station including Shutoff Valve (Tubing 500 mm)
PAL TubeFWash1	PTFE tube including fittings between shutoff valve and Fast Wash valve assembly
PAL TubeWashAct	Tubing kit for active wash station 1 InjVlv
PAL TubeWaste	Waste Tube for Fast Wash Station, 2m
PAL TubeWasteAct	Tube Waste for Active Wash
PAL TwinKit1-xt	Mounting Kit 126mm for two PAL-xt Cross Rails
PAL TwinSafetyGuard	Safety Guard for PAL Twin Kit with 126 mm displacement
PAL UprNdlGde	Upper Needle Guide Assembly (Gauge 19)
PAL UprNdlGde108	Upper Needle Guide Assembly 108mm (Gauge 19)
PAL VlvDrv	Valve drive for PAL System for Valco valve (without valve), consisting of: 1 pc Valve drive module 1 pc Connection cable 1300mm
PAL VlvDrvR	Valve drive for PAL System for Rheodyne valve (Ø27mm) PD7921 and PD7991 (without valve), consisting of: 1 pc Valve drive module 1 pc Connection cable 1300mm
PAL VlvDrvR-32	Valve drive for PAL System for Rheodyne valve (Ø32mm) PD718 series (without valve), consisting of: 1pc Valve drive 1pc Connection cable 1300mm

Part No.	Description
PAL WashFast-22	Wash station for HTS PAL, two solvents for high sample throughput (needle gauge 22), consisting of: 1 pc Double wash station 1 pc Holder 2 x 500ml bottles, bracket 92mm 1 pc Electrical connection cable 1 pc PTFE tubing kit 2 pc Solvent bottles 500ml
PAL WashFast3-22	Wash station for HTC PAL, two solvents for high sample throughput (needle gauge 22), consisting of: 1 pc Double wash station 1 pc Holder 2 x 500ml bottles, bracket 92mm 1 pc Electrical connection cable 1 pc PTFE tubing kit 2 pc Solvent bottles 500ml
PAL WashLarge	LC PAL Wash station for two solvents, consisting of: 1 pc Vial holder for 2x100ml vials and waste port with cap and seal 2 pcs Vial 100ml with cap and seal 1 pc Waste tube
PAL WashStd1	Wash station for two solvents, consisting of: 1 pc Vial holder 5 x \varnothing 22mm 5 pcs Vials 10ml 5 pcs Caps and seals
PAL XExtL-xt	PALxt X-Axis Extension Left hand side, 126mm
PAL XExtR-xt	PALxt X-Axis Extension Right hand side, 126mm
PAL XYSens	X-Y-Axis Position Sensor PCB's, Kit
PAL XYSensDual	X-Y-Axis Position Sensor PCB's, Dual Kit for Dual Injection Unit PAL Models
PAL3-Kit-VT54	Sample Rack for 54 vials of 2mL, pack of 3 pcs Vials are not included
PAL3-Rack-VT54	Sample Rack for 54 vials of 2mL. Vials are not included
PAL-POWER-STACK	Power supply Peltier-Cooler incl. controller, PALxt
PAL-POWERSUPPLY	Main Power supply for PALSystem. Input Voltage 100-240V
PAL-POWER-TRAY	Power supply Tray Cooler incl. controller, PALxt
PD718-313-K	6 port Rheodyne Injection Valve 0.20mm bore Coated, stainless steel rotor seal (RPC-13) Pressure up to 1200 bar, incl. Needle Guide, Needle Seal, Kit LCVlvR, mounted 2ul loop and VHP-200 fittings (requires PAL VlvDrvR-32).
PD718-315-K	6 port Rheodyne Injection Valve 0.20mm bore and MBB Coated, stainless steel rotor seal (RPC-13) Pressure up to 1200 bar, incl. Needle Guide, Needle Seal, Kit LCVlvR, (requires PAL VlvDrvR-32).
PD718-315-RPC	Rotor for PD718-315 Rheodyne 1200 Bar MBB Valve
PD718-315-SPC3	Stator for PD718-315 Rheodyne 1200 Bar MBB Valve
PD718-RPC13-6	Rotor for PD718-313 Rheodyne 1200 Bar Valve
PD718SL10	Sample loop 10ul for PD 718-313 and PD718-315 type valves

Part No.	Description
PD718SL2	Sample loop 2ul for PD 718-313 and PD718-315 type valves
PD718SL20	Sample loop 20ul for PD 718-313, PD718-314 and PD718-315 type valves
PD718-SPC3	Stator for PD718-313 Rheodyne 1200 Bar Valve
PD7991-K	6-port Rheodyne Injection Valve 0.20mm bore SPC4 (Special plating on Titanium), biocompatible 15'000 psi (1000 Bar) incl. Needle Guide, Needle Seal, Kit LCVlvR, Valve Adapter and Retaining Nut
PLG DIL1.0	Replacement plunger for dilutor syringe 1.0ml (SYRC DIL1.0)
PLG DIL10	Replacement plunger for dilutor syringe 10ml (SYRC DIL10)
PLG DIL2.5	Replacement plunger for dilutor syringe 2.5ml (SYRC DIL2.5)
PLG DIL5.0	Replacement plunger for dilutor syringe 5.0ml (SYRC DIL5.0)
PLG DLW100	Replacement plunger for syringe SYRC DLW100-R Package of 10 pcs
PLG G10	Replacement plunger for gastight syringe 10µl (SYRC G10...) Package of 10 pcs
PLG G100	Replacement plunger for gastight syringe 100µl (SYRC G100...) Package of 10 pcs
PLG G1000-L	Replacement plunger for gastight syringe 1.0ml (SYRC G1000...) not usable for headspace
PLG G25	Replacement plunger for gastight syringe 25µl (SYRC G25...) Package of 10 pcs CAUTION: Can only be used for syringes with metal flange.
PLG G250	Replacement plunger for gastight syringe 250µl (SYRC G250...) Package of 10 pcs
PLG G2500	Replacement plunger for gastight syringe 2.5ml (SYRC G2500...)
PLG G500	Replacement plunger for gastight syringe 500µl (SYRC G500...) Package of 10 pcs
PLG G5000	Replacement plunger for gastight syringe 5.0ml (SYRC G5000...)
PLG HD1000	HD-type replacement syringe plunger for 1ml Headspace Syringe
PLG HD2500	HD-type replacement syringe plunger for 2.5ml Headspace Syringe
PLG HD5000	HD-type replacement syringe plunger for 5ml Headspace Syringe
PLG ITEX-2-1.3	Replacement Plunger for ITEX-2 Syringe
PLG SP20	Replacement plunger for sideport syringe 20µl (SYRC SP20-R) Package of 10 pcs
PLG SP80	Replacement plunger for sideport syringe 80µl (SYRC SP80-R) Package of 10 pcs
PLG X100	Replacement plunger for X Line syringe 100µl (SYRX G100...) Package of 3 pcs
PLG X25	Replacement plunger for X Line syringe 25µl (SYRX G25...) Package of 3 pcs

Part No.	Description
PLG X50	Replacement plunger for X Line syringe 50µl (SYRX G50...) Package of 3 pcs
SFC 4/10	SupraFuse 4A for PAL CPU and Control Boards, pkg of 10pcs
SL100CW	Sample loop 100µl for VICI HPLC-valve 1/16" ends with nuts and ferrules
SL1KCW	Sample loop 1000µl for VICI HPLC-valve 1/16" ends with nuts and ferrules
SL200CW	Sample loop 200µl for VICI HPLC-valve 1/16" ends with nuts and ferrules
SL20CW	Sample loop 20µl for VICI HPLC-valve 1/16" ends with nuts and ferrules
SL250CW	Sample loop 250µl for VICI HPLC-valve 1/16" ends with nuts and ferrules
SL500CW	Sample loop 500µl for VICI HPLC-valve 1/16" ends with nuts and ferrules
SL50CW	Sample loop 50µl for VICI HPLC-valve 1/16" ends with nuts and ferrules
SS-100 SET	SWAGELOK ferrule 1/16" SST, pack of 10
SSAC10W	Rotor for LC-Valve 10 Port Type H 5000 psi 50°C
SSAC6W	Rotor for LC-Valve 6 Port Type H 5000 psi 50°C
SSACI4W.5/1	Rotor type H with internal loop 0.5/1.0µl for LC-Valve DCI4WK 5000 psi 50°C
SYRC DIL1.0	PAL Dilutor Syringe 1ml CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC DIL10	PAL Dilutor Syringe 10ml CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC DIL2.5	PAL Dilutor Syringe 2.5ml CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC DIL5.0	PAL Dilutor Syringe 5ml CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC DLW100-R	CTC Syringe for PAL DLW Option, 100µl, Gastight, ø 7.7mm, Scale Length 60 mm Thread 1/4-28 UNF Removable Needle not included. CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G1000-22-3	CTC Syringe gastight 1ml Dia. 7.7mm, scale 60mm Fixed needle gauge 22 Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G100-22-3	CTC Syringe gastight 100µl Dia. 6.6mm, scale 60mm Fixed needle gauge 22 Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Part No.	Description
SYRC G100-22S-3	CTC Syringe gastight 100µl Dia. 6.6mm, scale 60mm Fixed needle gauge 22S Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G100-26S-AS	Liquid syringe 100µl Fixed needle gauge 26S Pointstyle AS (GC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G10-22S-3	CTC Syringe gastight 10µl Dia. 6.6mm, scale 60mm Fixed needle gauge 22S Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G10-26S-AS	Liquid syringe 10µl Fixed needle gauge 26S Pointstyle AS (GC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G2500-22-3	CTC Syringe gastight 2.5ml Dia. 9.5mm, scale 60mm Fixed needle gauge 22 Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G250-22-3	CTC Syringe gastight 250µl Dia. 7.7mm, scale 60mm Fixed needle gauge 22 Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G250-26-AS	Liquid Syringe 250µl ø 7.7mm, Scale 60mm Fixed Needle Gauge 26 Pointstyle AS (GC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G25-22S-3	CTC Syringe gastight 25µl Diameter 7.7mm, Scale 60mm Fixed Needle Gauge 22S Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Part No.	Description
SYRC G25-26S-AS	Liquid syringe 25µl Fixed needle gauge 26S Pointstyle AS (GC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G5000-22-3	CTC Syringe gastight 5.0ml Dia. 13.5mm, scale 60mm Fixed needle gauge 22 Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G500-22-3	CTC Syringe gastight 500µl Fixed needle gauge 22 Pointstyle 3 (LC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC G500-26-AS	Liquid syringe 500µl Fixed needle gauge 26 Pointstyle AS (GC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC HS1.0-23-5	Headspace Syringe 1.0ml for Combi PAL and HS500 Sideport for gas flushing Fixed needle gauge 23 Pointstyle 5 (GC Headspace applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC HS2.5-23-5	Headspace Syringe HD-type 2.5ml for Combi PAL Sideport for gas flushing Fixed needle gauge 23 Pointstyle 5 (GC Headspace applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC HS5.0-23-5	CTC Headspace syringe 5.0ml for Combi PAL Sideport for gas flushing Fixed needle gauge 23 Pointstyle 5 (GC Headspace applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC ITEX2.5	ITEX syringe 2.5ml with 1/4"-28 UNF Fitting
SYRC ITEX-2-1.3	ITEX-2 Syringe 1.3ml with Adapter M7x0.5
SYRC L1.2-26P-AS	Liquid syringe 1.2µl for Combi PAL Fixed needle gauge 26 Pointstyle AS CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Part No.	Description
SYRC L10-23S-AS	CTC Syringe 10µl Dia. 6.6mm, scale 54mm Fixed needle gauge 23S Pointstyle AS (GC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC L10-26S-2	Liquid syringe 10µl Fixed needle gauge 26S Pointstyle 2 (GC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC L10-26S-AS	Liquid syringe 10µl Fixed needle gauge 26S Pointstyle AS (GC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC L5-26S-AS	Liquid syringe 5µl Fixed needle gauge 26S Pointstyle AS (GC liquid applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC SP20-R	CTC Syringe gastight 20µl ø 7.7mm, Scale 48mm Dual Sideport Removable Needle, not included CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRC SP80-R	CTC Syringe gastight 80µl ø 7.7mm, Scale 48mm Dual Sideport Removable Needle, not included CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRSGE L10-26S-AS	Liquid syringe SGE 10µl Diameter 6.5mm Fixed needle - 50mm 0.47 OD, gauge 26 Cone Tip (GC liquid applications) NOT FOR MEDICAL USE
SYRSGE-008631	Diamond SGE Headspace Syringe 2.5ml for Combi PAL Sideport for gas flushing Fixed needle gauge 23 Pointstyle 5 (GC Headspace applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Part No.	Description
SYRX G100-22-3	CTC Syringe Gastight 100µl Serie X Syringe for High-Throughput Application and Minimized Carry Over ø 6.6mm, scale 60mm Fixed Needle Gauge 22 Point Style 3 (LC Applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRX G100-22S-3	CTC Syringe gastight 100µl Serie X syringe for high throughput application and minimized carry over Dia. 6.6mm, scale 60mm Fixed needle gauge 22S Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRX G25-22S-3	CTC Syringe gastight 25µl Serie X syringe for high throughput application and minimized carry over Dia. 7.7mm, scale 60mm Fixed needle gauge 22S Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
SYRX G50-22S-3	CTC Syringe gastight 50µl Serie X syringe for high throughput application and minimized carry over Dia. 7.7mm, scale 60mm Fixed needle gauge 22S Pointstyle 3 (LC applications) CAUTION: FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE
TR050306B	PD7991 Rheodyne Sample Loop 5µl, SS, with SWAGELOK Ferrules
TR050306C	PD7991 Rheodyne Sample Loop 10µl, SS, with SWAGELOK Ferrules
TR050306D	PD7991 Rheodyne Sample Loop 20µl, SS, with SWAGELOK Ferrules
TR050306E	PD7991 Rheodyne Sample Loop 50µl, SS, with SWAGELOK Ferrules
TR050306F	PD7991 Rheodyne Sample Loop 100µl, SS, with SWAGELOK Ferrules
USB-Ser2	USB to 2 RS232 Converter (connects PAL SER ports to USB port)