



Price List spare parts Gas Analysis

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Valid from 01.10.2022

Revision history

Chapter	Description	Type of revision	Added	Page
All	Price adjustment	Price	10/2022	All
2.1	Shock absorbers	New produvt number	10/2022	12
3	Spare parts for filters	New product text	10/2022	20

PESP102022A0 Bühler Price List spare parts Gas Analysis

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General information

The price list contains our standard products.

If your application parameters require variations or specials we are pleased to offer application specific solutions.

Furthermore, we can supply you complete sample conditioning systems.

With release of this price list all previously published price lists become void.

Prices are suggested retail prices, sales tax not included.

We reserve the right to adjust the prices without advance notice.

Errors and omissions excepted

Please refer to our general terms and conditions, which you can find on our website:

<http://www.buehler-technologies.com>

No discounts are granted for orders with a value less than EUR 100,--.

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part-no.	type	unit price
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1. Spare parts for gas probes

1.1. General spare parts

462221521	Insulation jacket (2 parts) for -Sample gas probe 222.15/17/20 -Filter AHF-22-	119,00 €
462221524	Insulation ring for cap of the insulation jacket for -probes GAS 222.15/17 -filter AHF-22-S	44,00 €
462221517	half-shell isolating caps for GAS 222.**; material: PTFE	110,00 €
46222201	Insulation ring for cap Of the insulation jacket for -probe GAS 222.20 -filter AHF-22-R for insulation jacket	44,00 €
9009105	sealing for gas outlet for probes GAS 222 filter AHF-22- do=50,5 x di=6 x 3 mm material: silicone up to +200°C	8,00 €
9009079	flange sealing DN65 PN6 for probes GAS 222 Do= 77 x Di=115x2mm material: graphite	13,00 €
9009042	flange gasket ANSI B16.5 DN3"-150lb/sq.in. D1=89xd2=136x2 graphite with sheet inlay	21,00 €
9009068	flat gasket FD 40 WS for sample tubes Do= 32 x Di= 27mm material: 1.4571	7,00 €

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part-no.	type	unit price
9136050052	thermostat 155°C NO, IP40 switch off: 155°C +-5K set back: 140°C +-5K Max. ambient temperature:200°C	25,00 €
9136050056	thermostat 155°C NC, IP40 switch on: 155°C+- 5K set back: 140°C +- 5K Max. ambient temperature: 200°C	30,00 €
41222092	Temperature controller BRS for - AHF - GAS 222.20/21/31/35 230V AC	845,00 €
41222192	Temperature controller BRS for - AHF - GAS 222.20/21/31/35 115V AC	860,00 €
462221523	cap for selregulating - probes GAS 222.14/15/17 (Atex2/Ex2/Amex) - filter AHF for Insulation jacket (2 parts)	48,00 €
462222008	cap for regulated probes GAS with BRS for insulation jacket (2 parts)	48,00 €
9110010005	Temperature fuse 87N for regulated probes GAS with BRS triggering temperture 270°C +/- 10K max. 250VAC 16A	22,00 €
9102020014	PT100 embedded in ceramic tube for regulated probes GAS 222 with BRS applicable up to 250°C	56,00 €
462221534	Spare part set GAS 222.15/17 connection cap complete including - isolation ring, spacer - heating cartridges with thermostat - socket 3-pin + PE, PG11	311,00 €

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part-no.	type	unit price
1.2. Probe filters, gaskets and consumables		
46222026	Sintered ceramic filter element incl. O-rings, material: viton retention rate: 3µm	159,00 €
46222026P	Sintered ceramic filter element incl. O-rings, material Perfluorelastomer retention rate: 3µm	403,00 €
46222010	Sintered stainless steel element with O-rings, material: viton retention rate 5µm	173,00 €
46222010P	Sintered stainless steel element with O-rings, material Perfluorelastomer retention rate 5µm	421,00 €
462220139	Pleated stainless steel element with O-rings material: viton retention rate 15µm	248,00 €
462220139P	Pleated stainless steel element with O-rings material Perfluorelastomer retention rate 15µm	491,00 €
462221513	handle complete for probes GAS 222.1*/2* material stainless steel SS316Ti/ polyamide	159,00 €
46222351	plug complete for GAS 222.35 material: 1.4571/polyamide	344,00 €
46222012	Set of O-rings for probe and filter element material: viton	27,00 €
46222024	Set of O-rings for probe and filter element material: perfluorelastomere	270,00 €

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part-no.	type	unit price
462223515	Set of O-rings for GAS 222.35 with grease material: Viton/Cu	35,00 €
462220100011	Set of O-rings operating temperature -40°C up to +200°C incl. O-ring grease	249,00 €
46222067	handle complete for probes GAS 222.1*/2* with end caps for support the microglassfibre filter element material stainless steel SS316Ti/polyamide	249,00 €
462220671	Glas fibre element complete with O-Rings Viton retention rate: 0,1µm	53,00 €
462220671P	Glas fibre element complete with O-Rings Perfluorelastomer retention rate: 0,1µm	295,00 €
46222163	closing handle with filter tube and filter wool for probe GAS 222.1x/2x with O-rings viton	276,00 €
46222163P	closing handle with filter tube and filter wool for probe GAS 222.1x/2x with O-rings perfluorelastomer	430,00 €
46222167	filter wool for probe GAS 222.1x/2x package 100 g	31,00 €

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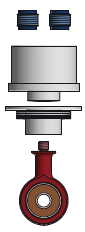
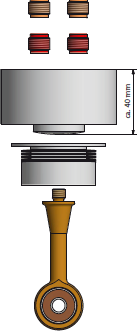
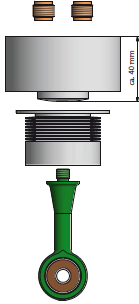
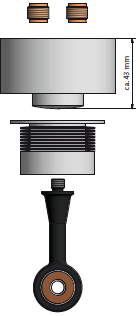


part-no.	type	unit price
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2. Spare parts for pumps

Übersicht Pumpenstößel und Faltenbälge Overview rods and bellows



Förderkennleistung Nominal flow rate 280 l/h	Förderkennleistung Nominal flow rate 400 l/h • 2x 400 l/h	Förderkennleistung Nominal flow rate 700 l/h	Förderkennleistung Nominal flow rate 800 l/h • 2x 800 l/h
			
P1.1 • P1.2 • P1.3	P2.2 • P2.3 • P2.4 • P4.3	P2.72 • P2.74	P2.82 • P2.83 • P2.84 • 4.83
Artikelnummer / Part number	Artikelnummer / Part number	Artikelnummer / Part number	Artikelnummer / Part number
4228003 Faltenbalg / bellow	4200015 Faltenbalg / bellow	4200071 Faltenbalg / bellow	4200071 Faltenbalg / bellow
4228065 Stößel und Exzenter / rods and eccentric	4200075 Stößel und Exzenter / rods and eccentric	4200097 Stößel und Exzenter / rods and eccentric	4200034 Stößel und Exzenter / rods and eccentric
4228066 Satz Ein-/Auslassventil 70 °C Set in/outlet valve 70 °C	4201002 Satz Ein-/Auslassventil 100 °C Set in/outlet valve 100 °C	4202002 Satz Ein-/Auslassventil 160 °C Set in/outlet valve 160 °C	4202002 Satz Ein-/Auslassventil 160 °C Set in/outlet valve 160 °C

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* nicht für P2.4 / except P2.4

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part-no.	type	unit price
2.1.	P2.x(c) pumps	
4200075	Spare part set 608 for P2.x pumps consisting of: connecting rod with ball bearing and nut eccentric with counterweight and setscrew	193,00 €
4200015	Bellow for P2.2, P2.3, P2.4 and P4.3 pumps Material: PTFE	165,00 €
4201006	In- or outlet valve up to 100°C (1 pc.) for P2. - pump	90,00 €
4202011	In-, outlet valve up to 160°C (1 pc.) for P2..-pump	187,00 €
4201002	Set of valves for 100°C (in- and outlet)	166,00 €
4202002	Set of valves for 160°C (in- and outlet)	356,00 €
4200062	spindle for bypass-valve 100°C material: PVDF	137,00 €
4200063	spindle for bypass-valve 160°C material: PCTFE	183,00 €
9009115	O-ring 6,07 x 1,78 for spindle for bypass-valve material: viton	11,00 €
9009305	O-Ring 6,07x1,78 for spindle bypass-valve material: Kalrez	56,00 €
4201004	pump body for P2 pump Material: PTFE	221,00 €
4201003	pump body for P2.x pump models with bypass valve material: PTFE	274,00 €

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part-no.	type	unit price
42000611	pump body with bypass completely assembled for P2...-pump material: PTFE / PVDF / Viton	444,00 €
42000612	Pumphead with bypass complete for P2...-pump material: head: PTFE spindle: PCTFE o-seal: Viton 500	452,00 €
4201099	pump body for P2. - pump material: SS 1.4571	606,00 €
4200033	displacer for pump body made of stainless steel P2.x pumps material: PTFE	14,00 €
4200064	Console for P2..(-V) pump material: aluminum coated	205,00 €
4200054	cover for console P2.x pump material: aluminum coated	77,00 €
4200060	Fastening ring with 4 screws M4X45 DIN 931 for P2.x	50,00 €
9009470	shock absorber D=20 x H=15 mm with threaded bolt M6x15 and M6x10	12,00 €
42000991	shock absorber set for P2/P4 sample gas pumps (4 pieces)	49,00 €
4256002	Console with shock absorber	116,00 €

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part-no.	type	unit price
2.2. P2.4(c) pumps		
4220011	cogwheel (yellow) for rotex coupling P2.4	21,00 €
4200016	Interim flange for P2.4 pumps	192,00 €
4220006	club hub for P2.4 pumps	56,00 €
4257001	Coupling flange for P2.4-pump (golden anodized)	104,00 €

2.3. P2.7x ATEX pumps

4200097	Spare part set for P2.7x consisting of: connecting rod with ball bearing and nut eccentric with counterweight and setscrew	236,00 €
4200071	bellow for 800L pumps: P2.82 ,P2.83, P2.84 and P4.83 material: PTFE	210,00 €
4201099	Pump body for P2. - pump material: SS 1.4571	606,00 €
4200033	displacer for pump body out of stainless steel P2.x pumps material: PTFE	14,00 €
4202011	In-, outlet valve (1 pc) up to 160°C for P2..-pump	187,00 €
4202002	Set of valves up to 160°C (in- and outlet; 2pcs)	356,00 €

Note: For all other relevant spare parts other than those listed above, please see Table 2.1 P2.x(c) Pumps on page 11

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part-no.	type	unit price
2.4.	P2.8x pumps	
4200034	Spare part set 4-608 consisting of: connecting rod with ball bearing and nut eccentric with counterweight and setscrew	236,00 €
4200030	bellow with screw for 800L pumps P2.8X/P4.8X material: PTFE	210,00 €
4200071	bellow for 800L pumps P2.82 ,P2.83, P2.84 and P4.83 material: PTFE	210,00 €
4200070	pump body for P2.8x material: PTFE	230,00 €
4201031	pump body for P2.8x pump models with bypass valve material: PTFE	289,00 €
42000271	pump body with bypass valve completely assembled for P2.8x-pump material: PTFE / PCTFE / Viton	444,00 €
4200028	Pump body stainless steel for P2.8x pump (800L pump) material: 1.4571	661,00 €
4200033	displacer for pump body out of stainless steel P2.x pumps material: PTFE	14,00 €

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part-no.	type	unit price
2.5. P1.x pumps		
4228065	Spare part set crank assembly P1.X and P1.XE consisting of the mounted parts: - connecting rod with ball bearing - eccentric - Screw DIN 915 M3x5	125,00 €
4228003	bellow for for P1.X and P1.XE material: PTFE	107,00 €
4228006	In- or outlet valve up to 70°C (1 pcs.) for P1.X(E) - pump	56,00 €
4228066	Set In- or outlet valve up to 70°C (2 pcs.) for P1.X(E)	110,00 €
4228004	Pump body for P1.X(E) pump Material: PTFE	92,00 €
4228020	Pump body for P1.X(E) pump Material: PVDF	50,00 €
4228051	P1.X add-on kit for PVDF-V bypass-valve consists of the preassembled components: - pump body incl. bypass-valve (viton o-ring) - mounting ring (subsequent assembly not possible) - sealing for in- and outlet valve	204,00 €
4228022	Pump body for P1X(E) pump Material: 1.4571	134,00 €
4200033	displacer for pump body out of stainless steel P1.X(E) pumps material: PTFE	14,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4228060	Mounting console P1.XE pump material: 1.4301	21,00 €
4228062	mounting set P1.X complete - 1x mounting bracket - set vibration damper	38,00 €
4228067	Mounting console P1.XE pump material: 1.4301	26,00 €
4228063	mounting set P1.XE complete - 1x mounting bracket - set vibration damper	45,00 €
4228061	4 x vibration damper Set incl. lock washer and nuts d=10mm h=10mm thread 1: M4x4 thread 2: M4x8	26,00 €
9009398	O-Ring 4,1x1,6 Viton75 ±5° shore black	9,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
2.6. Pump motors		
4201050	Single phase motor Voltage: 230V 50/60Hz Approval: CE	287,00 €
4201051	Single phase motor Voltage: 115V 50/60Hz Approval: CSA C-US	365,00 €
4201052	Three phase motor Voltage: 230/400V 50/60Hz Approval: CE	411,00 €
4201053	Single phase motor with 2 shaft ends Voltage: 230V 50/60Hz Approval: CE	409,00 €
4201054	Single phase motor with two shaft ends Voltage: 115V 50/60Hz Approval: CSA C-US	520,00 €

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part-no.	type	unit price
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2.7. Fittings for pump bodies

2.7.1. Fittings for pump bodies made of synthetic material (PTFE, PVDF)

4346055	Male connection DN 4/6- G 1/4 PVDF	22,00 €
4368051	Male connection DN 6/8- G 1/4 PVDF	23,00 €
43701027	Male connection 3/8" - 1/4" - G1/4 PVDF	36,00 €
4347010	Male connection 1/4" 1/8" tube - G1/4 thread PVDF	20,00 €
4347008	Male connection 1/4" 1/6" tube - G1/4 thread PVDF	20,00 €

2.7.2. Fittings for pump bodies made of stainless steel (1.4571)

9008322	Male connection G1/4" for pipe 6mm o.d., material: 1.4401	33,00 €
9008412	Male connection G1/4" for pipe 8mm o.d., material: 1.4401	39,00 €
9008702	Male connection G1/4" for pipe 3/8", material: 1.4401	39,00 €
9008303	Male connection G1/4" for pipe 1/6", material: 1.4401	33,00 €
9008321	Bonded seal for pipe thread male connector G1/4" material: 1.4401 / Viton	24,00 €

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part-no.	type	unit price
4102004	filterbowl 75 mm AGF-F25, -F2, -T-30	67,00 €
4101013	filterbowl 151 mm AGF-F2-L, -F25-L, -T-30	120,00 €
4101011	filterbowl 102 mm AGF-S2, -T-30	82,00 €
4101010	screw-cap for AGF-PV; -T(30), -FE-4, -FA-5 material: PVDF	37,00 €
4101003	O-ring 36 X 4 mm for material: Viton 500 for AGF-PV, -FE-4, -FA-5 material: Viton 500	11,00 €
4101005	O-ring 36 X 4 mm for AGF-PV, -FE-4, -FA-5 material: Viton, PTFE	27,00 €
4101007	adaptor AGF-PV-S2 material: PVDF for S2 elements	37,00 €
4101006	Adaptor AGF-S2-T material: PTFE for S2 elements	87,00 €
4102020	Adaptor for filter elements F2/F25 material: PTFE	36,00 €
4101016	Adaptor for AGF-PV30-S2-Ku material: PVDF	36,00 €
4101018	Adaptor AGF-PV30-S2-KU-T material: PTFE	55,00 €
4150001	filterhead for AGF-PV-30 material: PVDF	105,00 €

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part-no.	type	unit price
4150009	filterhead for AGF-T-30-... material: PTFE	371,00 €
4150003	Unique QC bracket for - AGF-PV-30- - AGF-TV-30- - ADF/RAF material: polyamide / glasfibre	27,00 €
4150013	Mounting bracket for - AGF-PV-30- - AGF-T-30- - ADF/RAF material: polyamide / glasfibre	26,00 €
4150012	connection shaft for mounting bracket. material: 1.4301	19,00 €
9009139	O-ring 40x4 for filterheads with unique QC material: viton	10,00 €
4150004	filterbowl for AGF-PV-30-S2 material: duran glass	89,00 €
4150005	filterbowl for AGF-PV-30-S2-A with condensate drain GL25 material: duran glass	120,00 €
4150006	filterbowl for AGF-PV-30-F25 material: duran glass	75,00 €
4150007	filterbowl for AGF-PV-30-F25-A with condensate drain GL25 material: duran glass	105,00 €
4150008	filterbowl for AGF-PV-30-F25-L material: duran glass	125,00 €
45100133	cap nut with drill for thread GL 25 with condensate drain	24,00 €
45100135E	seal for locking cap GL 25 Do= 22 x Di= 12mm material: silicone/PTFE	28,00 €

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part-no.	type	unit price
4101022	plug for glass locking cap GL 25 material: PTFE	25,00 €
41521991	Filter bowl for Ambient Air Filter RAF-PV-30-S2 material: duran glass	84,00 €
4115102	Filter bowl for AGF-FE-4 material: duran glass	64,00 €
9009162	O-ring 47,22 x 3,53 Viton 500 for AGF-FE-1	9,00 €
4128011	O-ring 21,95 X 1,78 mm material: Viton 500 for AGF-FE-2	7,00 €
4932002	Coalescence element for K-AGF-PV-30 / K-AGF-VA-350 material: Borosilicat fibre	70,00 €
41010010	Filter element S2 material: glass fibre 2 µm package of 5 pcs. (replacement for 4101001)	53,00 €
41151050	Filter element FE-4 material: PTFE 2 µm package of 8 pieces (replacement for 4115105)	228,00 €
4101002	Filter element S2 material: glass fibre 2 µm package of 25 PCS.	141,00 €
41030050	Filter element F2 material: PTFE 2 µm package of 5 pcs.	174,00 €
41020050	Filter element F2-L material: PTFE 2 µm package of 2 pcs.	145,00 €

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part-no.	type	unit price
41020130	Filter element F25 material: PTFE 25 µm package of 5 pcs. (replacement for 4102013)	153,00 €
41010120	Filter element F25-L material: PTFE 25 µm package of 2 PCS.	145,00 €
4135P020	PTFE Filterelement gesintert Filterfeinheit 20µm øi=12,7mm, L=57mm, max. 200°C	73,00 €
41010130	activated carbon filter element AGF - PV - 30 type PEAC 12-57 activated-carbon-monobloc with sintered police-filter-coat PE thread: 3/8" UNF length 64mm / diameter 23mm elements are seperate weld	110,00 €
41010140	Filter element S2-KU material: glass fibre 2 µm package of 5 pcs. (replacement for 4101014)	52,00 €
41010150	Filter element 2 micron S 2 - KU package of 25 PCS	169,00 €
41030058	Filter element 0,1-RA material: Borosilicate microglass 0,1 µm package of 5 pcs.	145,00 €
7856966	Filter element 25 micron 852149 DRG 25 VA - V	255,00 €
7856974	Filter element 60 micron 852149 DRG 60 VA - V	255,00 €

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part-no.	type	unit price
4103003	Filter element 25 micron DRG 25 SO – V	474,00 €
4103004	Filter element 60 micron DRG 60 SO – V	474,00 €
4103008	Filter element 25 micron DRG 25 SO – P	484,00 €
4103009	Filter element 60 micron DRG 60 SO – P	484,00 €
4128008	o-ring 29,87x1,78 mm material: Viton	10,00 €
4126004	o-ring 29,87 x 1,78 mm material: perfluoroelastomere	67,00 €
4932001	Coalescence element for K-AGF-VA-23 material : Borsilicate fibre, PVDF	70,00 €
41359993	Mounting bracket for AGF-VA-350 with screws material stainless steel	23,00 €
9008802	plug NPT 1/4", SS-4-P material stainless steel SS316	18,00 €
9009297	o-ring 26,7 x 1,78 material: FEP covered with VITON	12,00 €
9009809	O-Ring 26,7x1,78 PERLAST G80A FFKM 81 black	56,00 €
4135G002	Glass fibre filter element retention rate 2µm binder epoxy resin øi=12,7mm, L=57mm, max. 150°C	28,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4135G005	Glass fibre filter element retention rate 5µm binder epoxy resin øi=12,7mm, L=57mm, max. 150°C	28,00 €
4135G010	Glass fibre filter element retention rate 10µm binder epoxy resin øi=12,7mm, L=57mm, max. 150°C	28,00 €

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part-no.	type	unit price
4382006	Laboratory fitting GL14 with O-ring For pipe / hose diameter 1.6 mm Material PTFE -clamping ring (ETFE) -sealing wedge (PTFE) -sealing plate (PTFE)	55,00 €
45003011	Component set for connecting various heat exchangers with DN 4/6 gas inlet consisting of: - Fitting - O-ring (2x) - reducer - T-piece DN 4/6	59,00 €
45003011l	Component set for connecting various heat exchangers with 1/4 " - 1/6" gas inlet consisting of: - Fitting - O-ring (2x) - reducer - Tee 1/4 " - 1/6"	62,00 €
44921120123001	Dosing pump for stationary dosing unit Output 13ml/h 1 condensate way Standard usage 230V AC 50Hz with housing	342,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
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5. Spare parts for gas coolers

5.1. Peltier coolers

5.1.1. Overview heat exchangers (HE) for peltier coolers

Heat exchanger		Condensate drain possible with:		Cooler type		
HE-Type	Part no.	AK	Peristaltic pump	PKE 511 / 521 TC-Standard (X2): - 6111 - 6112	PKE 512 / 522 TC-MINI TC-Standard (X2): - 6121 - 6122	PKE 52 TC-MIDI (X2): - 6111 - 6112 - 6121 - 6122
MTS	4465099	(-) ²	X	X	X	
MTS-I	4465099I	(-) ²	X			
MTG	44651997	-	X			
MTV	4465199	(-) ²	X			
MTV-I	4465099I	(-) ²	X			
PTS	4447999	X	X			
PTS-I	4448999I	X	X			
PTG	4445999	X	X			
PTV	4446999	X	X			
PTV-I	4446999I	X	X			
TS	4510023	X	X			X
TS-I	4510025I	X	X			
TG	4510013	X	X			
TV-SS	4501004	X	X			
TV-SS-I	4501004I	X	X			
DTS	4501026	X	(X) ¹			X
DTS-I	4501026I	X	(X) ¹			
DTS-6	4501023	-	X			
DTS-6-I	4501023I	-	X			
DTG	4501027	X	X			
DTV	4501040	-	X			
DTV-I	4501040I	-	X			
Glossary heat exchanger						
"S"	Stainless steel		(X) ¹	DTS-6-(I) recommended		
"G"	Glass		(-) ²	For passive condensate removal with MTS(-I) and MTV(-I) fitting with minimum diameter of 7mm is necessary.		
"V"	PVDF		AK	Automatic condensate drains		
"-I"	With NPT thread rs. connections inch size					
"-SS"	Vertical gas connectors / condensate outlet					
"D"	Two separated gas paths					

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
5.1.2.Heat exchanger for peltier coolers		
Note: For appropriate choice of heat exchanger please use table 5.1.1 Overview heat exchangers (HE) for peltier coolers on page 27.		
4465099	heat exchanger MTS Gas connection: 6mm Condensate outlet connection: G1/4" material: 1.4571/PVDF	266,00 €
4465099I	heat exchanger MTS-I Gas connection: 1/4" Condensate outlet connection: NPT 1/4" material: 1.4571/PVDF	266,00 €
44651997	heat exchanger MTG Gas connection: GL14 (6mm) Condensate outlet connection: GL18 (8mm) material: duran glass	423,00 €
4465199	heat exchanger MTV Gas connection: DN4/6 Condensate outlet connection: G1/4" material: PVDF	268,00 €
4465199I	heat exchanger MTV-I Gas connection: 1/4"-1/6" Condensate outlet connection: NPT 1/4" material: PVDF	268,00 €
4447999	Heat exchanger PTS Gas connection: Swagelok 6mm Condensate outlet connection: G3/8" material: Stainless steel 1.4571	376,00 €
4448999I	Heat exchanger PTS-I Gas connection: 1/4" Condensate outlet connection: NPT 3/8" material: Stainless steel 1.4571	376,00 €
4445999	Heat exchanger PTG Gas connection: GL14 (6mm) Condensate outlet connection: GL25 (12mm) material: duran glass	423,00 €
4446999	Heat exchanger PTV Gas connection: DN4/6 Condensate outlet connection: G3/8" material: PVDF	379,00 €

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Gas Analysis



part-no.	type	unit price
4446999I	Heat exchanger PTV-I Gas connection: 1/4"-1/6" Condensate outlet connection: NPT 3/8" material: PVDF	379,00 €
4510023	Heat exchanger TS Gas connection: G 1/4" Condensate outlet connection: G 3/8" material: Stainless steel 1.4571	478,00 €
4510025I	Heat exchanger TS-I Gas connection: NPT 1/4" Condensate outlet connection: NPT 3/8" material: stainless steel 1.4571	478,00 €
4510013	Heat exchanger TG Gas connection: GL14 (6mm) Condensate outlet connection: GL25 (12mm) material: duran glass	496,00 €
4501004	Heat exchanger TV – SS Gas connection: DN4/6 Condensate outlet connection: G3/8" material: PVDF	552,00 €
4501004I	Heat exchanger TV-SS-I Gas connection: 1/4"-1/6" Condensate outlet connection: NPT 3/8" material: PVDF	552,00 €
4501026	Heat exchanger DTS Gas connection: 6mm Condensate outlet connection: 10mm material: stainless steel 1.4571	788,00 €
4501026I	Heat exchanger DTS-I Gas connection: 1/4" Condensate outlet connection: 3/8" material: stainless steel 1.4571	788,00 €
4501023	heat exchanger DTS-6 Gas connection: 6mm Condensate outlet connection: 6mm material: stainless steel 1.4571	788,00 €

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Gas Analysis



<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4501023I	heat exchanger DTS-6-I Gas connection: 1/4" Condensate outlet connection: 1/4" material: stainless steel 1.4571	788,00 €
4501027	Heat exchanger DTG Gas connection: GL14 (6mm) Condensate outlet connection: GL18 (10mm) material: duran glass	897,00 €
4501040	Heat exchanger DTV Gas connection: DN4/6 Condensate outlet connection: DN5/8 material: PVDF	899,00 €
4501040I	Heat exchanger DTV-I Gas connection: 1/4"-1/6" Condensate outlet connection: 3/16"-5/16" material: PVDF	899,00 €

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Gas Analysis



part-no.	type	unit price
5.1.3.TC-Mini		
9112000039	Power pack cap rail MW SDR-75-24 input voltage 85-264 VAC 120-370VDC output voltage 24VDC output current 3,2 A	96,00 €
9112000040	power supply unit MW SDR-120-24 voltage range 88-264 VAC 124-370VDC voltage output 24VDC current range 5A	173,00 €
4011000	Mounting adapter type G material: PVDF connection: G 1/4	103,00 €
4011000I	Mounting adapter type NPT material: PVDF connection: 1/4" NPT	112,00 €
4111100	Moisture detector FF-3-N with broken wire detection with M12 plug	161,00 €
9144050081	Wire M12 4-pin, length 320 mm For FF-3-N	23,00 €
9144050082	Wire M12 4-pin, length 470 mm For FF-3-N	23,00 €
9110000031	Fuse, 5A slow 5 x 20 mm	6,00 €
5530009932	fan 24 VDC type 3414 NH dimensions 92x92x25	62,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
5.1.4.TC-Standard, TC-Midi, TC-Double		
9100100007	Display modul MCD400	116,00 €
9144050080	connection cabel L=210mm controller board / Mainboard - LPP MCD400/conductor board	21,00 €
9100130180TC	Spare part MCP2 for TC-cooler and EGK 1 Ex2 settings according to customer/product specification and hardware options	191,00 €
4011000	Mounting adapter type G material: PVDF connection: G1/4	103,00 €
4011000I	Mounting adapter type G material: PVDF connection: G1/4	112,00 €
4011005	Mounting adapter type G-S Material: stainless steel 1.4571 Connection: G1/4	146,00 €
4011005I	Mounting adapter type S-NPT Material: Edelstahl 1.4571 Connection: 1/4" NPT	142,00 €
9110000058	Fuse, 1,25A slow 5 x 20 mm	7,00 €
9110000013	Fuse 2,5 A slow 5 x 20 mm	8,00 €
4111100	Moisture detector FF-3-N with broken wire detection with M12 plug	161,00 €
9144050081	Wire M12 4-pin, length 320 mm For FF-3-N	23,00 €
9144050082	Wire M12 4-pin, length 470 mm For FF-3-N	23,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
41502999	Filter AGF - PV - 30 - F2 Material: PVDF/Glass Retention: 2 micron with filter element F2	259,00 €
41502999I	Filter AGF - PV - 30 - F2 Material: PVDF/Glass Retention: 2 micron with filter element F2 with fittings In- and Outlet PVDF NPT 1/4"	259,00 €
446590005	Papst-blower 12 VDC Typ 3412 NH Dimensions 92x92x25, 94 m ³ /h, 36 db(A) Single lacing AWG 24 Braided wire ends Housing PBTP, impeller PA	85,00 €
9100010185	PCB complete mounted for power board TCG Rev.AA	113,00 €
9100011187	Controller board for TC series Completely equipped Article is part of external approval for TC Revision: DE Product documentation: 47/187 and drawing bridge rectifier 47/187-04-4	150,00 €
9144050079	Connection Cable 40cm Controller board / Mainboard - LPP MCD400/ conductor board	21,00 €
449600062	Papst-blower 12 VDC Typ 3412 NH with alarm output Dimensions 92x92x25, 94 m ³ /h, 36 db(A) Single lacing AWG 24 Braided wire ends Housing PBTP, impeller PA	85,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
9144050086	Cable for Moisture detector With cable lug at the shielding and open strands Length: 540 mm	19,00 €
4150799	Filter AGF - PV - 30 - F2L Material: PVDF/Glass Retention: 2 micron with filter element F2L	367,00 €
4150799I	Filter AGF-PV-30-F2-L-I Material: PVDF/Glass Retention: 2 micron with filter element F2L	367,00 €
9100011185	conductor plate, complete placement for power plate 24 V TCG revision:AA AW-E/45-049	119,00 €
9144050091	connection cable mainboard – TC Double	21,00 €
9100112180	PCB Fully equipped and programmed for MCP2 ADON / additional controller TC-Double Attention: the 2nd controller (ADUC) must not be programmed.	157,00 €
9110000051	microfuse 4 A 5 X 20 mm / slow	7,00 €
9100030265	Connection cable LPB (TC or RC) to Bühler Modbus RTU Interface	290,00 €
9144051038	Connection cable interface module Modbus RTU	22,00 €

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Gas Analysis



<i>part-no.</i>	<i>type</i>	<i>unit price</i>
5.1.5.TC-Kit / TC Kit+		
41111000	Moisture detector FF-3-N with broken wire detection with M12 plug cable length 4 m	181,00 €
9144050038	Wire M12 4-pin, length 4m For FF-3-N	52,00 €
4381045	Male connection No. 7 DN 8/12- G 1/4 PVDF	31,00 €
4381048	Male connection No. 9 DN 8/12- G 1/4" NPT PVDF	31,00 €
449600047	Connector M3 for electric supply TC-MIDI incl. cables	48,00 €

Spare parts price list 10/2022

Gas Analysis



part-no. type unit price

5.2. Compressor coolers

5.2.1. Overview heat exchanger (HE) for compressor coolers

Heat exchanger		Condensate drain possible with		Cooler type				
HE-Type	Part no.	AK	Peristaltic pump	RC 1.1 EGK1/2 EGK1SD	EGK2-19	EGK4 EGK4S	EGK2Ex EGK2AEx EGK1 Ex2	
PTS	4447999	X	X		X			
PTS-I	4448999I	X	X					
PTG	4445999	X	X					
PTV	4446999	X	X					
PTV-I	4446999I	X	X					
TS	4510023	X	X	X		X	X	
TS-I	4510025I	X	X					
TG	4510013	X	X					
TV-SS	4501004	X	X					
TV-SS-I	4501004I	X	X					
DTS	4501026	X	(X) ¹	X		X	X	
DTS-I	4501026I	X	(X) ¹					
DTS-6	4501023	-	X					
DTS-6-I	4501023I	-	X					
DTG	4501027	X	X					
DTV	4501040	-	X					
DTV-I	4501040I	-	X					
Glossary heat exchanger								
"S"	Stainless steel		(X) ¹	DTS-6-(I) recommended				
"G"	Glass							
"V"	PVDF		AK	Automatic condensate drains				
"-I"	With NPT thread							
"-SS"	Vertical gas connectors / condensate outlet							
"D"	Two separated gas paths							

Note: You can find appropriate heat exchangers for EGK10 in chapter 5.2.7 *EGK10* on page 43.

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Gas Analysis



part-no.	type	unit price
5.2.2.Heat exchanger for compressor coolers		
Note: For appropriate choice of heat exchanger please use table 5.2.1 on page 36.		
4447999	Heat exchanger PTS Gas connection: Swagelok 6mm Condensate outlet connection: G3/8" material: Stainless steel 1.4571	376,00 €
4448999I	Heat exchanger PTS-I Gas connection: 1/4" Condensate outlet connection: NPT 3/8" material: Stainless steel 1.4571	376,00 €
4445999	Heat exchanger PTG Gas connection: GL14 (6mm) Condensate outlet connection: GL25 (12mm) material: duran glass	423,00 €
4446999	Heat exchanger PTV Gas connection: DN4/6 Condensate outlet connection: G3/8" material: PVDF	379,00 €
4446999I	Heat exchanger PTV-I Gas connection: 1/4"-1/6" Condensate outlet connection: NPT 3/8" material: PVDF	379,00 €
4510023	Heat exchanger TS Gas connection: G 1/4" Condensate outlet connection: G 3/8" material: Stainless steel 1.4571	478,00 €
4510025I	Heat exchanger TS-I Gas connection: NPT 1/4" Condensate outlet connection: NPT 3/8" material: stainless steel 1.4571	478,00 €
4510013	Heat exchanger TG Gas connection: GL14 (6mm) Condensate outlet connection: GL25 (12mm) material: duran glass	496,00 €

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Gas Analysis



part-no.	type	unit price
4501004	Heat exchanger TV – SS Gas connection: DN4/6 Condensate outlet connection: G3/8” material: PVDF	552,00 €
4501004I	Heat exchanger TV-SS-I Gas connection: 1/4”-1/6” Condensate outlet connection: NPT 3/8” material: PVDF	552,00 €
4501026	Heat exchanger DTS Gas connection: 6mm Condensate outlet connection: 10mm material: stainless steel 1.4571	788,00 €
4501026I	Heat exchanger DTS-I Gas connection: 1/4” Condensate outlet connection: 3/8” material: stainless steel 1.4571	788,00 €
4501023	Heat exchanger DTS-6 Gas connection: 6mm’ Condensate outlet connection: 6mm material: stainless steel 1.4571	788,00 €
4501023I	Heat exchanger DTS-6-I Gas connection: 1/4” Condensate outlet connection: 1/4” material: stainless steel 1.4571	788,00 €
4501027	Heat exchanger DTG Gas connection: GL14 (6mm) Condensate outlet connection: GL18 (10mm) material: duran glass	897,00 €
4501040	Heat exchanger DTV Gas connection: DN4/6 Condensate outlet connection: DN5/8 material: PVDF	899,00 €
4501040I	Heat exchanger DTV-I Gas connection: 1/4”-1/6” Condensate outlet connection: 3/16”-5/16” material: PVDF	899,00 €

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Gas Analysis



part-no.	type	unit price
5.2.3.EGK1/2		
4400030	fan 115 V / 50-60 Hz for EGK 1/2	137,00 €
4410030	fan 230V 50/60 Hz for EGK 1/2	137,00 €
9100110124	Display unit ABT400	148,00 €
45212992	Connector wire lead for EGK 4s; EGK 10; EGK 2-19 PCB - Display	18,00 €
9100110125	Controller board MCP1 <i>Note: Please make sure to mention the cooler type in case of order!</i>	152,00 €
9100010133	Control board for EGK 1/2 230V EGK 1 SD 230V EGK 4s 230V EGK 10 230V	190,00 €
9100010134	Circuit board controller for EGK 1/2 115V EGK 1 SD 115V EGK 4s 115V EGK 10 115V	190,00 €
9110000001	fuse 0.8 A slow 5 X 20 mm	6,00 €
4510140	one CPsingle mounted in EGK 1/2 auxiliary angle and cord set 115/230V AC, 50/60Hz	661,00 €
4510240	two CPsingle mounted in EGK 1/2 auxiliary angle and cord set 115/230V AC, 50/60Hz	1.096,00 €

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Gas Analysis



part-no.	type	unit price
5.2.4.EGK1SD		
4410030	Fan for EGK1SD 230V/50-60Hz with mounting bracket	137,00 €
4400030	Fan for EGK1SD 115V/50-60Hz with mounting bracket	137,00 €
9100110124	Display unit ABT400	148,00 €
446590012	cable for PKE 5, EGK 1/2 Mainboard - display board Total length incl. connector L=21cm	22,00 €
9100110125	Controller board MCP1 <i>Note: Please make sure to mention the cooler type in case of order!</i>	152,00 €
9100010133	Control board for EGK 1/2 230V EGK 1 SD 230V EGK 4s 230V EGK 10 230V	190,00 €
9100010134	Circuit board controller for EGK 1/2 115V EGK 1 SD 115V EGK 4s 115V EGK 10 115V	190,00 €
9110000001	fuse 0.8 A slow 5 X 20 mm	6,00 €

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Gas Analysis



part-no.	type	unit price
5.2.5.EGK4S		
4410013	Fan for EGK4, EGK4S 230V/50-60Hz with mounting bracket	137,00 €
4400013	Fan for EGK4, EGK4S 115V/50-60Hz with mounting bracket	150,00 €
9100110124	Display unit ABT400	148,00 €
45212992	cable for PKE 52, EGK 10, EGK 2-19, EGK4S Mainboard - display board Total length incl. connector L=50cm	18,00 €
9100110125	Controller board MCP1 <i>Note: Please make sure to mention the cooler type in case of order!</i>	152,00 €
9100010133	Control board for EGK 1/2 230V EGK 1 SD 230V EGK 4s 230V EGK 10 230V	190,00 €
9100010134	Circuit board controller for EGK 1/2 115V EGK 1 SD 115V EGK 4s 115V EGK 10 115V	190,00 €
4570001	Mounting brackets for cooler (two pieces)	55,00 €
9009247	handle (two pieces)	28,00 €
9110000001	fuse 0.8 A, slow 5 X 20 mm	6,00 €

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Gas Analysis



part-no.	type	unit price
5.2.6.EGK2-19		
9124040023	Papst fan 230V 50Hz	108,00 €
9124040026	Papst fan 115V 60Hz	119,00 €
9100110124	Display unit ABT400	148,00 €
45212992	cable for PKE 52, EGK 10, EGK 2-19, EGK4S Mainboard - display board Total length incl. connector L=50cm	18,00 €
9100110125	Controller board MCP1 <i>Note: Please make sure to mention the cooler type in case of order!</i>	152,00 €
9100010132	Board MIO-FF for moisture detector	131,00 €
9100010128	control board EGK 2/19 230 V	268,00 €
9100010136	control board EGK 2/19 115V	299,00 €
9110000059	Fuse 315 mA / slow 5 X 20 mm	7,00 €

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Gas Analysis



part-no.	type	unit price
5.2.7.EGK10		
4510034	Heat exchanger TS10 port G 3/8" ; mat.:1.4571 for EGK 10	928,00 €
4510033	Heat exchanger TS10 port NPT 3/8" ; mat.:1.4571 for EGK 10	928,00 €
4510038	Heat exchanger TS10-GB for EGK 10, port NPT 3/8" made of stainless steel 1.4571 from inside glass coated	1.504,00 €
4410031	Fan for EGK 10 230V 50Hz	249,00 €
4400031	Fan for EGK 10 115V 60Hz	326,00 €
9100110124	Display unit ABT400	148,00 €
45212992	cable for PKE 52, EGK 10, EGK 2-19, EGK4S Mainboard - display board Total length incl. connector L=50cm	18,00 €
9100110125	Controller board MCP1 <i>Note: Please make sure to mention the cooler type in case of order!</i>	152,00 €
9100010133	Control board for EGK 1/2 230V EGK 1 SD 230V EGK 4s 230V EGK 10 230V	190,00 €
9100010134	Circuit board controller for EGK 1/2 115V EGK 1 SD 115V EGK 4s 115V EGK 10 115V	190,00 €
4570001	Mounting brackets for cooler (two pieces)	55,00 €
9009247	handle (two pieces)	28,00 €
9110000001	fuse 0.8 A 5 X 20 mm	6,00 €

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Gas Analysis



part-no.	type	unit price
5.2.8. RC 1.1, RC 1.2		
910010007	Display modul MCD400	116,00 €
9144050079	Connection Cable 40cm Controller board / Mainboard - LPP MCD400/ conductor board	21,00 €
9100130180RC	Spare part MCP2 for RC and EGK 1 Ex2 settings according to customer/product specification and hardware options	191,00 €
4011000	Mounting adapter type G material: PVDF connection: G1/4	103,00 €
4011000I	Mounting adapter type NPT material: PVDF connection: 1/4" NPT	112,00 €
4011005	Mounting adapter type G-S Material: stainless steel 1.4571 Connection: G1/4	146,00 €
4011005I	Mounting adapter type S-NPT Material: Edelstahl 1.4571 Connection: 1/4" NPT	142,00 €
4111100	Moisture detector FF-3-N with broken wire detection with M12 plug	161,00 €
9144050081	Wire M12 4-pin, length 320 mm For FF-3-N	23,00 €
9144050086	Cable for Moisture detector With cable lug at the shielding and open strands Length: 540 mm	19,00 €

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Gas Analysis



part-no.	type	unit price
9100030265	Buhler Modbus RTU Interface (BMRI) with connection M12	290,00 €
9144051038	Connection cable LPB (TC or RC) to Bühler Modbus RTU Interface	22,00 €
459600026	adapter plate EGK 1/2 to RC 1 including nuts	119,00 €
41502999	Filter AGF - PV - 30 - F2 Material: PVDF/Glass Retention: 2 micron with filter element F2	259,00 €
41502999I	Filter AGF-PV-30-F2-I Material: PVDF/Glass Retention: 2 micron with filter element F2 In- and Outlet PVDF NPT 1/4"	259,00 €
4150799	Filter AGF - PV - 30 - F2L Material: PVDF/Glass Retention: 2 micron with filter element F2L	367,00 €
4150799I	Filter AGF-PV-30-F2-L-I Material: PVDF/Glass Retention: 2 micron with filter element F2L	367,00 €
9100010197	LPB RC-Controller 230V Project 47197 Revision BB Dimensions 90 x 140,	194,00 €
9100011197	LPB RC-Controller 115V Project 47197 Revision BB Dimensions 90 x 140,	194,00 €
9110000020	micro-fuse 3,15 A T 5 X 20 mm / inert 534-213	8,00 €
9110000063	Fuse 115V, 6,3 A slow 5 x 20 mm	8,00 €

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Gas Analysis



part-no.	type	unit price
5.2.9.EGK 2A Ex		
45909996	Temperature sensor PT100 for EGK 2 Ex	116,00 €
45929997MC	elektronic-MC EGK 2A-Ex 230V 50/60Hz casted and setted	949,00 €
45939997MC	elektronic-MC EGK 2A-Ex 115V 50/60Hz casted and setted	962,00 €
9104070001	Condensator 55 µF +- 5% Un 280V 50/60Hz 10000 h/Kl. B dimensions ø60x190, cable-length 450 mm as spare part pay attention to supplement 998BX450030	203,00 €
9100111124	conductor board for display ABT400Ex MC, programmed, complete populated	137,00 €
9132020032	motor protection switch 8146/5-V27 adjust range 1 - 1,6A 230 V, 50/60 Hz (0/230/400/500V) for assembling in Ex-area zone 1, 2, 21, 22	848,00 €
9132020035	motor protection switch 8146/5-V27 adjust range 1 - 1,6A 115V, 50/60 Hz (0/230/400/500V) for assembling in Ex-area zone 1, 2, 21, 22	820,00 €
4410005	Condensate vessel with drain cock GL 1, glass with support made from PVC	384,00 €
4410019	Condensate vessel with drain clock GL 2, glass with support made from PVC	430,00 €

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Gas Analysis



part-no.	type	unit price
5.2.10. EGK 1 Ex2		
9100100007	Display modul MCD400	116,00 €
456300001	Controller Platine MCP 2	161,00 €
4510150	one CPsingle X2 mounted in EGK 1 Ex 2 auxiliary angle and cord set 115/230V AC, 50/60Hz	789,00 €
4510250	two CPsingle X2 mounted in EGK 1 Ex 2 auxiliary angle and cord set 115/230V AC, 50/60Hz	1.350,00 €
4510151	one CPsingle X2 with metric screw connection mounted in EGK 1 Ex 2 auxiliary angle and cord set 115/230V AC, 50/60Hz	806,00 €
4510251	two CPsingle X2 with metric screw connection mounted in EGK 1 Ex 2 auxiliary angle and cord set 115/230V AC, 50/60Hz	1.389,00 €
4510152	one CPsingle X2 with screw connection US dimension mounted in EGK 1 Ex 2 auxiliary angle and cord set 115/230V AC, 50/60Hz	806,00 €
4510252	two CPsingle X2 with screw connection US dimension mounted in EGK 1 Ex 2 auxiliary angle and cord set 115/230V AC, 50/60Hz	1.389,00 €
9124040023	NMB-Technologies fan model 4715MS-23T-B50-A00 230V 50Hz, 119x119x38 mm VS= 150 m3/h	108,00 €
9124040026	NMB-Technologies Model 4715MS-12T-B50-A00 115V 60Hz, 119x119x38mm VS= 174 m3/h	119,00 €
9100010220	Controller for EGK 1 Ex 2 Voltage 230V	210,00 €
9100011220	Controller for EGK 1 Ex 2 Voltage 115V	210,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
5.2.11. CU EMA+		
9148000105	3/2-way-magnetic valve type 0330 for aggressive media, G1/4" DN 4mm, 0-2 bar, 230V 5W gasket FPM, case PVDF	506,00 €
9144050082	Wire M12 4-pin, length 470 mm For FF-3-N	23,00 €
9120020139	Relay module - RIF-1-RPT-LDP-24DC / 2X21-2903334 Pre-assembled relay module with push-in connection, consisting of: Relay socket, power contact relay, plug-in display / suppression module and retaining bracket. Contact version: 2 changers. Input voltage: 24 V DC	12,00 €
9110000078	time lag fuse 125mA 5x20mm series 215 from Littelfuse customer ID.: 0215.125 Interrupt Rating 1500A @ 250V AC	5,00 €
9120020143	Relay module - RIF-1-RPT-LV-230AC/2X21 - 2903331 Pre-assembled relay module with push-in connection, consisting of: Relay socket, power contact relay, plug-in display / suppression module and retaining bracket. Contact version: 2 changers. Input voltage: 230 V AC	14,00 €
9146030314	Fuse modular terminal block with LED red 3025046 PT 6-DREHSILED 24 color: black fuse type: G / 5x20 Push-in connection cross section: 0.5-10 mm ² , AWG: 20-8 LED voltage range: 12V...30V AC/DC	14,00 €

Note: Article 9120020139 is a net price!

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Gas Analysis



<i>part-no.</i>	<i>type</i>	<i>unit price</i>
5.3.2. Washoutoptimised heat exchangers		
Note: For appropriate choice of heat exchanger please use table 5.3.1 on page 49.		
44651999	Heat exchanger MTG-2 Washout-optimised material: duran glass	445,00 €
44651998	Heat exchanger MTV-2 Washout-optimised material: PVDF	280,00 €
44651998I	Heat exchanger MTV-2-I Washout-optimised material: PVDF connections inch size	280,00 €
44459993	Heat exchanger PTG-2 Washout-optimised material: duran glass	413,00 €
4449999	Heat exchanger PTV-2 Washout-optimised material: PVDF	371,00 €
4449999I	Heat exchanger PTV-2-I Washout-optimised material: PVDF connections inch size	371,00 €
446519992	heat exchanger STG-2 material: glass	495,00 €
446519993	heat exchanger STV-2 Washout-optimised material: PVDF	440,00 €
446519993I	heat exchanger STV-2I Washout-optimised material: PVDF connections inch size	440,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
5.3.3. Spare parts for precooler PC1		
45002014	Heat exchanger glass cartridge with shrink tube marking filled with borosilicate glass balls for gas inlet and acid metering	274,00 €
45002015	Borosilicate glass ball package packaged in 170g unit	39,00 €
45002007	pre cooler ball block	35,00 €
4460028	Bedek fan AF092258 B00 HT 100-240 V AC 101 m ³ /h 48 dB-A	83,00 €
4460029	Bedek fan DA09225#24U 24 V DC 108 m ³ /h 47 dB-A	83,00 €
4382006	Laboratory fitting GL14 with O-ring For pipe / hose diameter 1.6 mm Material PTFE -clamping ring (ETFE) -sealing wedge (PTFE) -sealing plate (PTFE)	55,00 €
45100144	Bola gasket for caps PTFE temperature resistance from -60°C to + 230°C for GL 14 thread	20,00 €
45100134E	seal for locking cap GL14 da=12, di=6 with PTFE sleeve onesided	20,00 €
45100137E	seal for locking cap GL25 with PTFE sleeve	21,00 €

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Gas Analysis



part-no.	type	unit price
5.4. Accessories for coolers		
5.4.1. Heat exchanger accessories		
43715001	Glas-union DN 4/6, GL 14, PVDF O-ring seal: Viton	27,00 €
43715008	Glas-union 1/4"-1/8", GL 14, PVDF O-ring seal: Viton	27,00 €
43715009	Glas-union 1/4"-1/6", GL 14, PVDF O-ring seal: Viton	27,00 €
43715011	Glas-union DN 4/6, GL 14, PFA O-ring seal: Viton	51,00 €
43715018	Glas-union 1/4"-1/8", GL 14, PFA O-ring seal: Viton	48,00 €
43715019	Glas-union 1/4"-1/6", GL 14, PFA O-ring seal: Viton	48,00 €
45100132	locking cap. GL14	18,00 €
45100134E	seal for locking cap GL14 da=12, di=6 with PTFE sleeve onesided	20,00 €
4445014	support tube Do=8 x D=6x20 mm material: PVDF	14,00 €
43715002	Glas-union DN 4/6, GL 18, PVDF O-ring seal: Viton	27,00 €
43715004	Glas-union DN 5/8, GL 18, PVDF O-ring seal: Viton	28,00 €
43715005	Glas-union DN 6/8, GL 18, PVDF O-ring seal: Viton	28,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
43715012	Glas-union DN 4/6, GL 18, PFA O-ring seal: Viton	48,00 €
43715014	Glas-union DN 6/8, GL 18, PFA O-ring seal: Viton	56,00 €
45100140	locking cap GL 18	21,00 €
45100138E	seal for locking cap GL18 Do=16mm, Di=8mm with PTFE sleeve onesided	20,00 €
4445012	support tube D1=5xd2=4x15mm PVDF	13,00 €
4510273	support tube D1=6xd2=4x15mm PVDF	13,00 €
45100141E	seal for locking cap GL18 Do=16mm, Di=10mm silicone with PTFE sleeve one-sided	23,00 €
4445013	support tube Do=8 x Di=6x20 mm material: PVDF	14,00 €
4445015	support tube 1/4"-1/6" material: PVDF	14,00 €
43715003	Glas-union DN 4/6, GL 25, PVDF O-ring seal: Viton	28,00 €
43715006	Glas-union DN 6/8, GL 25, PVDF O-ring seal: Viton	31,00 €
43715007	Glas-union DN 10/12, GL 25, PVDF O-ring seal: Viton	45,00 €
43715010	Glas-union 1/2"-3/8", GL 25, PVDF O-ring seal: Viton	45,00 €

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Gas Analysis



part-no.	type	unit price
43715013	Glas-union DN 4/6, GL 25, PFA O-ring seal: Viton	49,00 €
43715015	Glas-union DN 6/8, GL 25, PFA O-ring seal: Viton	55,00 €
43715016	Glas-union DN 8/12, GL 25, PFA O-ring seal: Viton	88,00 €
43715017	Glas-union DN 10/12, GL 25, PFA O-ring seal: Viton	88,00 €
43715020	Glas-union 1/2"-3/8", GL 25, PFA O-ring seal: Viton	88,00 €
45100133	cap nut with drill ø15 for thread GL 25 material: PBTP	24,00 €
451001352E	seal for locking cap GL 25 Do=22mm, Di=10mm, H=6,6mm silicone/PTFE one-sided	28,00 €
4445015	support tube 1/4"-1/6" material: PVDF	14,00 €
45100135E	seal for locking cap GL 25 Do=22mm, Di=12mm, H=6,6mm silicone/PTFE one-sided	28,00 €
4445013	support tube Do=8 x Di=6x20 mm material: PVDF	14,00 €
4445016	support tube 3/8"-1/4" material: PVDF	14,00 €
45100135	seal for locking cap GL 25 material: silicone/PTFE	28,00 €
4445010	support tube Do=10 x D=8x20mm material: PVDF	14,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
4445016	support tube 3/8"-1/4" material: PVDF	14,00 €
90214701	silicone grease no. 511 tube with 100 g	31,00 €
9022221	Thermally conductive paste for PT100 / temperature fuse Silicon free, syringe 20grams	20,00 €

Note: Delivery time for PFA-fittings upon request.

5.4.2. Peristaltic pumps

SP-Series

9124030027	tube for peristaltic pump Q=0,3 l/h material: Norprene A-60-G / PVDF with 90° angle connections	42,00 €
9124030034	tube for peristaltic pump Q=0,3 l/h material: Norprene A-60-G / PVDF with straight connections	42,00 €
9124030092	tube for peristaltic pump Q=0,3 l/h material: Fluran F-5500-A / PVDF with 90° angle connections	70,00 €
9124030093	tube for peristaltic pump Q=0,3 l/h material: Fluran F-5500-A / PVDF with straight connections	70,00 €
9124030081	tube 4x1,6 for peristaltic pump Q = 1 l/h with 90° angle connections 6 mm, material: Norprene	64,00 €

Spare parts price list 10/2022

Gas Analysis



<i>part-no.</i>	<i>type</i>	<i>unit price</i>
CP Single / Double /X2-Serie		
44920011	Rotor 1 for CPsingle and CPdouble color: black	48,00 €
44920021	Rotor 2 for CPdouble color: grey	48,00 €
44920011EX	Mounting parts:rotor 1 ex	61,00 €
44920021EX	mounting parts: rotor 2 EX	61,00 €
449200108	Cover CPsingle safe area with Buehler logo	30,00 €
449200208	Cover CPdouble safe area with Buehler logo	39,00 €
449200108EX	Cover CPsingle EX area (Zone 2) Color: black	41,00 €
449200208EX	Cover CPdouble EX area (Zone 2) Color: black	52,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
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Flow rate 0,3 l/h

Item No.	Hose material	Hose connection	unit price
44920035011	Norprene	straight hose nipple	42,00 €
44920035012		angled hose nipple	42,00 €
44920035013		Straight and angled hose nipple	42,00 €
44920035014		Screw connection (metric) DN 4/6	82,00 €
44920035015		Screw connection (US) 1/6"-1/4"	82,00 €
44920035016		angled hose nipple and screw connection (metric)	64,00 €
44920035017		angled hose nipple and screw connection (US)	64,00 €
44920035018		straight hose nipple and screw connection (metric)	64,00 €
44920035019		straight hose nipple and screw connection (US)	64,00 €
44920035021	Fluran	straight hose nipple	70,00 €
44920035022		angled hose nipple	70,00 €
44920035023		straight and angled hose nipple	70,00 €
44920035024		Screw connection (metric) DN 4/6	106,00 €
44920035025		Screw connection (US) 1/6"-1/4"	106,00 €
44920035026		angled hose nipple and screw connection (metric)	88,00 €
44920035027		angled hose nipple and screw connection (US)	88,00 €
44920035028		straight hose nipple and screw connection (metric)	88,00 €
44920035029		straight hose nipple and screw connection (US)	88,00 €
44920035031	Marprene	straight hose nipple	70,00 €
44920035032		angled hose nipple	70,00 €
44920035033		straight and angled hose nipple	70,00 €
44920035034		Screw connection (metric) DN 4/6	106,00 €
44920035035		Screw connection (US) 1/6"-1/4"	106,00 €
44920035036		angled hose nipple and screw connection (metric)	88,00 €
44920035037		angled hose nipple and screw connection (US)	88,00 €
44920035038		straight hose nipple and screw connection (metric)	88,00 €
44920035039		straight hose nipple and screw connection (US)	88,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
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5.4.3. Tubing

Note: Price per meter!

9014004	PTFE Tube D1=6 D2=4	7,00 €
9014006	PTFE Tube D1=8 D2=6	8,00 €
9014009	PTFE Tube D1 = 10 mm D2 = 8 mm	11,00 €
9014013	tube D1=12 x D2=8 PTFE	21,00 €
9014011	Hose D1=12 D2=10 PTFE	12,00 €
9014141	tube DN 5/8 material: Viton	26,00 €

5.4.4. Wash bottle

4410091	wash bottle WF-AGF-PV-30, v=0,6l material: PVDF/glass/Viton with diffuser	500,00 €
4410091I	Gas inlet tube with glass frit for WF-AGF-PV-30 V=0,6l material: PVDF / glass	500,00 €
44100893	diffuser for washing bottle connection: Da=6mm outer diameter 29mm material: Duran 3.3	73,00 €

Note: Articles 4410091 and 4410091I are net prices!

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
4055052	Spindle for SM-6-V-V / NVT-3 material: PVDF	146,00 €
4055053	Spindle for SM-6-V-P / NVT-3-SO material: PCTFE	192,00 €
9009049	O-ring 3,1 x 1,6 material: VITON 500	12,00 €
9009048	O-ring 3,1 x 1,6 material: PCTFE	50,00 €
40168994	Control knob for needle valve SM-4/SM-6	37,00 €
9012365	Mounting screw for control knob SM-4/SM-6	10,00 €
40168991	Valve cover for SM-4	37,00 €
40158993	Connector body for SM3/4/6 material: PTFE	97,00 €
4055050	Flow meter SM-6 O-ring for glass d=15mm	45,00 €
40158997	Gasket ring for flow meter SM3/4 material: PTFE	23,00 €
4055051	nut for metering tube dia.15mm material: PPS	16,00 €
4055054	Valve body for flow meter SM-6-V.. material: PTFE	130,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
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7. Spare parts for NOx converters

Spare parts for Bünox2+

55319990	converter cartridge type MC for Bünox2+ 1.4571/granulate/glass fibre/Viton	240,00 €
55319970	converter cartridge type MC-LL for BÜNOX 2+ 1.4571/granulate/glass fibre/Viton	395,00 €
55319992	sealing set Bünox2+ for converter cartridge 4 x O-ring Viton	25,00 €
55300001	Wall bracket for Bünox and BÜNOx 2+ material: SS 304	302,00 €
9100130180NOX	Spare part MCP2 for BüNOx settings according to customer/product specification and hardware options	191,00 €

Spare parts for Bünox (generation one)

55399990	converter cartridge type MC for BÜNOX 1.4571/granulate/glass fibre/Viton	240,00 €
55399992	sealing set for converter cartridge 3 x O-ring Viton	25,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
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8. Spare parts for portable Gasconditioning

8.1. Baseline

4676010000	Portable sample probe Baseline tube ø8 L=300 stainless steel with 3m Viton hose DN6	141,00 €
46760008	Baseline suspension 2m chain with carabiner material steel galvanized	26,00 €
46760020	Filter element for condensate trap material glass fibre retention rate 2 micron	20,00 €
46760030	Filter element for condensate trap material PTFE retention rate 2 micron	33,00 €
46760006	Baseline pre-filter 3µm material 1.4404/1.4401	249,00 €

8.2. Smartline

46770020	Smartline filter element sintered stainless steel with gaskets retention rate 5µm material 1.4404/Viton	130,00 €
46770030	Smartline filter element ceramic with gaskets retention rate 3µm material ceramic/Viton	116,00 €
467701120	Smartline screw cap complete for sintered stainless steel filter material: 1.4404 / 1.4571 / Viton / silicone	367,00 €
467701130	Smartline screw cap complete for ceramic filter material: 1.4404 / 1.4571 / Viton / silicone	367,00 €

Spare parts price list 10/2022

Gas Analysis



part-no.	type	unit price
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8.3. PCS.Base

41150090	Filter element FE-1-T material: PTFE 2 µm package of 5 pcs. (replacement for 4115009)	160,00 €
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8.4. PCS.Smart

9100100007	Display modul MCD400	116,00 €
9144050079	Connection Cable 40cm Controller board / Mainboard - LPP MCD400/ conductor board	21,00 €
9100130180PCS	Spare part MCP2 for portable conditioning systems settings according to customer/product specification and hardware options	191,00 €
CSPB0006	Flow adapter mini 2x hose nipple DN4 Material: PVDF	103,00 €
9110000058	Fuse, 1,25A slow 5 x 20 mm	7,00 €
9110000013	Fuse 2,5 A slow 5 x 20 mm	8,00 €
9110000016	Fuse 10 A slow 5 x 20 mm	7,00 €
9110000067	Fuse 8 A slow 5 x 20 mm	7,00 €
4111100	Moisture detector FF-3-N with broken wire detection with M12 plug	161,00 €

Spare parts price list 10/2022

Gas Analysis



<i>part-no.</i>	<i>type</i>	<i>unit price</i>
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8.5. Smart-Sample-Tube

46770005	Smartline mounting bracket with 2m chain material: EPDM/steel galvanized	171,00 €
4678010	Universal transition insulation Do = 45mm; Di = 25mm; Length = 100mm Material: silicone (max. 200 ° C)	12,00 €
4300011	Check valve series 5R400TA with hose connection DN 1/4 -1/6" on both sides Material: PVDF, FKM, PTFE, Hastelloy	107,00 €