



Price List

Components Gas Analysis

EN

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PEGA102022A0 Bühler Price List Gas Analysis Components

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General information

This 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 is not included.

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

Errors 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,--.

12. Oktober 2022

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1 Sample gas probes

1.1 GAS 222, unheated probes

1.1.1 GAS 222.10, unheated, downstream filter, applicable for dust up to approx. 2g/m³

Part no.	4	6	2	2	2	1	0	9	9	0	0	0	0	9	9	9	9	9	9	9	Price	Total		
																				Sample Probe Basic Unit				
																				GAS 222.10		838,00 €		
																				Flange/ Approval				
																				0	DIN DN65 PN6		0,00 €	
																				1	ANSI 3"- 150lbs		79,00 €	
																				Power Supply				
																				none				
																				Calibration Gas Port				
																				0	Without calibration gas port		0,00 €	
																				1	6mm		184,00 €	
																				2	6mm + with check valve		481,00 €	
																				3	1/4"		184,00 €	
																				4	1/4" + with check valve		481,00 €	
																				Catalogue Price				

The basic unit works properly only with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9.

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1.1.2 GAS 222.11/30/35U, unheated, blowback for dust up to approx. 200g/m³

Part no.	4	6	2	2	2	0	9	9	0	0	0	0	0	0	Price	Total
Sample Probe Basic Unit																
															GAS 222.11	1.409,00 €
															GAS 222.30	1.339,00 €
															GAS 222.35U	1.406,00 €
Flange/ Approval																
															DIN DN65 PN6	0,00 €
Power Supply																
															none	0,00 €
Calibration Gas Port																
															without Calibration Gas Port	0,00 €
															6mm	184,00 €
															6mm + with check valve	481,00 €
															1/4"	184,00 €
															1/4" + with check valve	481,00 €
Heated extension																
															no	0,00 €
Built-in temperature controller for heated extension																
															no	0,00 €
															Back Purge with Capacitive Vessel ¹⁾	740,00 €
															Support for pressurized vessel (only for GAS 222.35U)	260,00 €
Heater for Capacitive Vessel																
															yes	333,00 €
															no	0,00 €
Integrated Blowback Controller																
															no	0,00 €
Internal valve for Pressurized Air/Power Supply																
															manual	210,00 €
															115 V	342,00 €
															230 V	345,00 €
															24V	337,00 €
															without (if there is no blowback required)	0,00 €
Pneumatic actuator for Internal Ball Valve																
															manual (not for GAS 222.35U)	0,00 €
															Mono stable depressurised open (not for GAS 222.35U)	674,00 €
															Mono stable depressurised closed (not for GAS 222.35U)	660,00 €
															bistable (not for GAS 222.35U)	660,00 €
															without (only for GAS 222.35U)	0,00 €
Limit Switch for Pneumatic Actuator																
															yes (not for GAS 222.35U)	235,00 €
															no	0,00 €
Solenoid Valve for Pneumatic Actuator																
															3 3/2-way solenoid valve (not for GAS 222.35U)	250,00 €
															5 5/2-way solenoid valve (not for GAS 222.35U)	161,00 €
															without solenoid valve	0,00 €
Catalogue Price																

The basic unit works properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9.

- ¹⁾ Burnable sample gases must be purged with inert gases.
For explosive gases a blowback is not allowed!

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1.1.3 GAS 222.11/30/35U, ANSI/CSA, unheated, blowback for dust up to approx. 200g/m³

Part no.	4	6	2	2	2	1	9	9	0	0	0	0	9	Price	Total	
Sample Probe Basic Unit																
	1	1												GAS 222.11 ANSI/CSA	1.487,00 €	
	3	0												GAS 222.30 ANSI/CSA	1.411,00 €	
	3	5												GAS 222.35U ANSI/CSA	1.481,00 €	
Flange/Approval																
														ANSI 3"- 150lbs ¹⁾	0,00 €	
Power Supply																
														none	0,00 €	
Calibration Gas Port																
	0													without Calibration Gas Port	0,00 €	
	1													6mm	184,00 €	
	2													6mm + with check valve	481,00 €	
	3													1/4"	184,00 €	
	4													1/4" + with check valve	481,00 €	
Heated extension																
														no	0,00 €	
Built-in temperature controller for heated extension																
														no	0,00 €	
														Back Purge with Capacitive Vessel ²⁾	740,00 €	
														Support for pressurized vessel (only for GAS 222.35U)	260,00 €	
Heater for Capacitive Vessel																
	1													yes	333,00 €	
	9													no	0,00 €	
Integrated Blowback Controller																
	9													no	0,00 €	
Internal valve for Pressurized Air/Power Supply																
	0													manual	210,00 €	
	1													120V 60Hz	688,00 €	
	2													240V 60Hz	688,00 €	
	9													without (if there is no blowback required)	0,00 €	
Pneumatic actuator for Internal Ball Valve																
	0													manual (not for GAS 222.35U ANSI/CSA)	0,00 €	
	1													Mono stable depressurised open (not for GAS 222.35U ANSI/CSA)	674,00 €	
	2													Mono stable depressurised closed (not for GAS 222.35U ANSI/CSA)	660,00 €	
	9													without (only for GAS 222.35U ANSI/CSA)	0,00 €	
Limit Switch for Pneumatic Actuator																
														no	0,00 €	
Solenoid Valve for Pneumatic Actuator																
	3													3/2- way solenoid valve (not for GAS 222.35U ANSI/CSA)	307,00 €	
	9													without solenoid valve	0,00 €	
Part no.	4	6	2	2	2	1	9	9	0	0	0	0	9	Catalogue Price		

The basic unit works only properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9.

- 1) Sample Probes with ANSI Flange have the CSA and the C-US admission.
- 2) Burnable sample gases must be purged with inert gases. For explosive gases a blowback is not allowed!

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1.2 GAS 222.20 DH, steam heated, downstream filter, applicable for dust up to approx. 2 g/m³

Part no.	4	6	2	2	2	2	0	9	9	0	9	0	0	9	9	9	9	9	9	9	Price	Total
	Sample Probe Basic Unit																					
	GAS 222.20 DH steam heated																			2.578,00 €		
	Flange																					
	0	DIN DN65 PN6																		0,00 €		
	1	ANSI 3"- 150lbs																		79,00 €		
	Power Supply																					
	steam (only for GAS 222.20DH)																			0,00 €		
	Calibration Gas Port																					
	0	Without calibration gas port																		0,00 €		
	1	6mm																		184,00 €		
	2	6mm + with check valve																		481,00 €		
	3	1/4"																		184,00 €		
	4	1/4" + with check valve																		481,00 €		
	Catalogue Price																					
Part no.	4	6	2	2	2	2	0	9	9	0	9	0	0	9	9	9	9	9	9			

The basic unit works only properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9.

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1.3 GAS 222, heated gas probes

1.3.1 GAS 222.15/17/20, heated, downstream filter, applicable for dust up to approx. 2 g/m³ for safe area

Part no.	4	6	2	2	2			9	9	0				9	9	9	9	9	9	Price	Total			
																					Sample Probe Basic Unit			
1	5																			GAS 222.15 with self-regulated heater	1.341,00 €			
1	7																			GAS 222.17 with self-regulated heater	1.766,00 €			
2	0																			GAS 222.20 temperature regulated by controller	2.350,00 €			
																					Flange			
	0																			DIN DN65 PN6	0,00 €			
	1																			ANSI 3"- 150lbs ¹⁾	76,00 €			
																					Power Supply			
	1																			115 V (only for GAS 222.20)	0,00 €			
	2																			230 V (only for GAS 222.20)	0,00 €			
	3																			115/230 V (only for GAS 222.15/17)	0,00 €			
																					Calibration Gas Port			
	0																			Without calibration gas port	0,00 €			
	1																			6mm	184,00 €			
	2																			6mm + check valve	481,00 €			
	3																			1/4"	184,00 €			
	4																			1/4" + check valve	481,00 €			
																					Heated Extension			
	0																			no	0,00 €			
	1																			yes (only for GAS 222.20, price is listed in the attached file)	0,00 €			
																					Built-in temperature controller for heated extension			
	0																			no	0,00 €			
	1																			yes (only for GAS 222.20)	545,00 €			
Part no.	4	6	2	2	2			9	9	0				9	9	9	9	9	9	Catalogue Price				

The basic unit works properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9.

¹⁾ Sample Probes with ANSI Flange have the CSA and the C-US approval.

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1.3.2 GAS 222. 21/31/35, heated, back purge, applicable for dust up to approx. 200g/m³, for safe area

Part no.	4	6	2	2	2	0	9	9	0												Price	Total	
Sample Probe Basic Unit																							
	2	1																			GAS 222.21	3.136,00 €	
	3	1																			GAS 222.31	2.878,00 €	
	3	5																			GAS 222.35	2.942,00 €	
Flange/Approval																							
																					DIN DN65 PNG	0,00 €	
Power Supply																							
	1																				115V	0,00 €	
	2																				230 V	0,00 €	
Calibration Gas Port																							
	0																				Without calibration gas port	0,00 €	
	1																				6mm	184,00 €	
	2																				6mm + check valve	481,00 €	
	3																				1/4"	184,00 €	
	4																				1/4" + check valve	481,00 €	
Heated extension																							
	0																				no	0,00 €	
	1																				yes (only for GAS 222.21/31, price see attached file)	0,00 €	
Built-in temperature controller for heated extension ¹⁾																							
	0																				no	0,00 €	
	1																				yes (only for GAS 222.21/31) ¹⁾	545,00 €	
																					Blowback with air reservoir ²⁾	740,00 €	
Heater for Capacitive Vessel																							
	1																				yes	333,00 €	
	9																				no	0,00 €	
Integrated Blowback Controller ¹⁾																							
	1																				Internal controller	1.102,00 €	
	9																				no	0,00 €	
Internal valve for Pressurized Air/Power Supply																							
	0																				manual	210,00 €	
	1																				115 V	342,00 €	
	2																				230 V	345,00 €	
	3																				24 V	337,00 €	
	9																				without (if there is no blowback required)	0,00 €	
Pneumatic actuator for Internal Ball Valve																							
	0																				manual (not for GAS 222.35)	0,00 €	
	1																				Mono stable depressurised open (not for GAS 222.35)	674,00 €	
	2																				Mono stable depressurised closed (not for GAS 222.35)	660,00 €	
	3																				bistable (not for GAS 222.35)	660,00 €	
	9																				Without (only for GAS 222.35)	0,00 €	
Limit Switch for Pneumatic Actuator																							
	1																				yes (not for GAS 222.35)	235,00 €	
	9																				no	0,00 €	
Solenoid Valve for Pneumatic Actuator																							
	3																				3/2-way solenoid valve (not for GAS 222.35)	250,00 €	
	5																				5/2-way solenoid valve (not for GAS 222.35)	161,00 €	
	9																				without solenoid valve	0,00 €	
Part no.	4	6	2	2	2	0	9	9	0												Catalogue Price		

- 1) The electronics can either be equipped with temperature controller for heated extension or blowback control
 - 2) Burnable sample gases must be purged with inert gases. For explosive gases a blowback is not allowed!
- The basic unit works properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9.

1.4 GAS 222, unheated sample probe for hazardous area

1.4.1 GAS 222.10, unheated, downstream filter, applicable for dust up to approx. 2g/m³, for hazardous area

Part no.	4	6	2	2	2	1	0	0		Installation in hazardous area		0	0	0	9	9	9	9	9	9	9	9	Price	Total		
																							Sample Probe Basic Unit			
																							GAS 222.10		838,00 €	
																							Flange/Approval			
																							DIN DN65 PN6		0,00 €	
																							Hazardous area Outside and Inside			
	1	1																					zone 1	0,00 €		
	2	2																					zone 2	0,00 €		
	4	4																					zone 21	0,00 €		
	5	5																					zone 22	0,00 €		
	9	9																					no zone	0,00 €		
																							Temperature Classes			
		2																					T2	0,00 €		
		3																					T3	0,00 €		
		4																					T4	0,00 €		
		6																					T6	0,00 €		
																							Power Supply			
																							none		0,00 €	
																							Calibration Gas Port			
		0																					Without calibration gas port	0,00 €		
		1																					6mm	184,00 €		
		2																					6mm + check valve	481,00 €		
		3																					1/4"	184,00 €		
		4																					1/4" + check valve	481,00 €		
																							Catalogue Price			
Part no.	4	6	2	2	2	1	0	0			0	0	0	9	9	9	9	9	9	9	9					

The sales of the represented version is only permitted outside the EU. The corresponding certification for GAS 222.11 / 30 / 35U is available. Please request for these

The hazardous area can be differentiated inside and outside.

The basic unit works only properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9.

Price List 10/2022

Gas Analysis



1.4.2 GAS 222.11/30/35U, unheated, purge back, applicable for dust up to approx. 200g/m³, for hazardous area

Part no.		4	6	2	2	2	0	0	0	0	9	Price	Total	
		Installation in hazardous area sampling from hazardous area												
	1	1												
	3	0												
	3	5												
Sample Probe Basic Unit														
													GAS 222.11	1.409,00 €
													GAS 222.30	1.339,00 €
													GAS 222.35U	1.406,00 €
Flange/Approval														
													DIN DN65 PN6	0,00 €
Hazardous area Outside and Inside ¹⁾														
	1	1											zone 1	0,00 €
	2	2											zone 2	0,00 €
	4	4											zone 21	0,00 €
	5	5											zone 22	0,00 €
	9	9											no zone	0,00 €
Ex Temperature Classes														
	2	2											T2	0,00 €
	3	3											T3	0,00 €
	4	4											T4	0,00 €
	6	6											T6	0,00 €
Power Supply														
													none	0,00 €
Calibration Gas Port														
	0	0											Without calibration gas port	0,00 €
	1	1											6mm	184,00 €
	2	2											6mm + check valve	481,00 €
	3	3											1/4"	184,00 €
	4	4											1/4" + check valve	481,00 €
													Back Purge with Capacitive Vessel ²⁾	740,00 €
													Support of pressurised vessel (only for GAS 222.35U)	260,00 €
Heater for Capacitive Vessel														
	1	1											yes (only for Zone 2, not for T6)	428,00 €
	9	9											no	0,00 €
Internal valve for Pressurized Air/Power Supply														
	0	0											manual	210,00 €
	1	1											115V (not for T6)	688,00 €
	2	2											230V (not for T6)	688,00 €
	3	3											24V (not for T6)	688,00 €
	9	9											without (if there is no blowback required)	0,00 €
Pneumatic actuator for Internal Ball Valve														
	0	0											Manual (not for GAS 222.35U)	0,00 €
	1	1											Mono stable depressurised open (not for GAS 222.35U)	674,00 €
	2	2											Mono stable depressurised closed (not for GAS 222.35U)	660,00 €
	9	9											without (not for GAS 222.35U)	0,00 €
Limit Switch for Pneumatic Actuator														
	1	1											yes (not for Zone 21, not for GAS 222.35U)	550,00 €
	9	9											no	0,00 €
Solenoid Valve for Pneumatic Actuator														
	3	3											3/2- way solenoid valve (not for GAS 222.35U)	479,00 €
	9	9											without solenoid valve	0,00 €
Catalogue Price														

Sales are currently only permitted outside the EU. The corresponding certification is in progress for the GAS 222.11 / 30 / 35U series. If necessary, please ask for the current availability. We refer to chapter 1.7.3.

The hazardous area can be differentiated inside and outside.

- ¹⁾ Please note, some of accessories can reduce the area classification of the probe! For the correct layout, please read the manuals, charts for accessories and sheets carefully!
- ²⁾ Burnable sample gases must be purged with inert gases. For explosive gases a blowback is not allowed!

The basic unit works only properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9

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Gas Analysis



1.4.3 GAS 222.11/30/35U, ANSI/CSA, unheated, purge back, applicable for dust up to approx. 200g/m³, for hazardous area

Part no.	4	6	2	2	2	1	Installation in hazardous area	0	0	0	9	9	Price	Total	
Sample Probe Basic Unit															
1	1												GAS 222.11 ANSI/CSA	1.487,00 €	
3	0												GAS 222.30 ANSI/CSA	1.411,00 €	
3	5												GAS 222.35U ANSI/CSA	1.481,00 €	
Flange/Approval															
ANSI 3"-150lbs													0,00 €		
Hazardous area Outside and Inside ¹⁾															
6	6												Class I Div 2	0,00 €	
9	9												No zone	0,00 €	
Ex Temperature Classes															
3												T3	0,00 €		
4												T4	0,00 €		
Power Supply															
none													0,00 €		
Calibration Gas Port															
0												Without calibration gas port	0,00 €		
1												6mm	184,00 €		
2												6mm + check valve	481,00 €		
3												1/4"	184,00 €		
4												1/4" + check valve	481,00 €		
Back Purge with Capacitive Vessel ²⁾													740,00 €		
Support of pressurised vessel (only for GAS 222.35U ANSI/CSA)													260,00 €		
Heater for Capacitive Vessel															
1												Yes	333,00 €		
9												no	0,00 €		
Internal valve for Pressurized Air/Power Supply															
0												manual	210,00 €		
1												120V 60Hz	688,00 €		
2												240V 60Hz	688,00 €		
9												without (if there is no blowback required)	0,00 €		
Pneumatic actuator for Internal Ball Valve															
0												manual (not for GAS 222.35U ANSI/CSA)	0,00 €		
1												Mono stable depressurised open (not for GAS 222.35U ANSI/CSA)	674,00 €		
2												Mono stable depressurised closed (not for GAS 222.35U ANSI/CSA)	660,00 €		
9												without (not for GAS 222.35U ANSI/CSA)	0,00 €		
Limit Switch for Pneumatic Actuator															
no													0,00 €		
Solenoid Valve for Pneumatic Actuator															
3												3/2- way solenoid valve (not for GAS 222.35U ANSI/CSA)	307,00 €		
9												without solenoid valve	0,00 €		
Part no.	4	6	2	2	2	1		0	0	0	9	9	Catalogue Price		

The hazardous area can be different inside and outside.

- 1) Please note, some of accessories can reduce the area classification of the probe! For the correct layout, please read the manuals, charts for accessories and sheets carefully!
- 2) Burnable sample gases must be purged with inert gases. For explosive gases a blowback is not allowed!

The basic unit works properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9

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Gas Analysis



1.5 GAS 222, probes for hazardous areas zone 1 (Atex & IECEx)

1.5.1 GAS 222.20 Ex1, heated, downstream filter, applicable for dust up to approx. 2g/m³, downstream filter, for hazardous areas

Part no.	4 6 2 2 2 2 0 1											4 0 0 9 0 0 0				Price	Total	
												Sample probe basic unit						
												GAS 222.20 Ex1				3.748,00 €		
												Flange						
	0	1										Flansch DN65 PN6				0,00 €		
	0	2										Flansch DN3"-150				80,00 €		
												Hazardous area						
												Outside						
	4											Zone 1 (Atex/IECEx)				0,00 €		
	7											Zone 21 (Atex)				0,00 €		
	9											ohne				0,00 €		
												Inside						
	3											Zone 0 (Atex/IECEx)				0,00 €		
	4											Zone 1 (Atex/IECEx)				0,00 €		
	6											Zone 20 (Atex)				0,00 €		
	7											Zone 21 (Atex)				0,00 €		
	9											none				0,00 €		
												Temperature class inside/outside (dust only ATEX)						
												Ga/Gb	Ga/Db	Da/Gb	Da/Db			
	4											T3/T4	T3/T130°C	T175°C/T4	T175°C/T130°C	0,00 €		
												Temperature class inside/outside (dust only ATEX)						
												Gb/Gb	Gb/Db	Db/Gb	Db/Db			
	4											T4/T4	T4/T130°C	T130°C/T4	T130°C/T130°C	0,00 €		
												Power supply sample probe						
												1	115 V				255,00 €	
												2	230 V				0,00 €	
												Calibration gas port						
												0	No				0,00 €	
												1	6 mm				481,00 €	
												2	6 mm with check valve				184,00 €	
												3	1/4"				481,00 €	
												4	1/4" with check valve				184,00 €	
Part no.	4 6 2 2 2 2 0 1											4 0 0 9 0 0 0				Catalogue Price		

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Gas Analysis

1.5.2 GAS 222.21/31/35 Ex1, heated, downstream filter, applicable for dust up to approx. 2g/m³, for hazardous areas

											Price
Sample probe basic unit											
GAS 222.21 Ex1											4.637,00 €
GAS 222.31 Ex1											4.460,00 €
GAS 222.35 Ex1											4.524,00 €
Flange											
Flange DN65 PN6											0,00 €
Flange DN3"-150											80,00 €
Hazardous area Outside											
Zone 1 (Atex/IECEX)											0,00 €
Zone 21 (Atex)											0,00 €
none											0,00 €
Innside											
Zone 0 (Atex/IECEX)											0,00 €
Zone 1 (Atex/IECEX)											0,00 €
Zone 20 (Atex)											0,00 €
Zone 21 (Atex)											0,00 €
none											0,00 €
Temperature class inside/outside (dust only ATEX)											
Ga/Gb				Ga/Db		Da/Gb		Da/Db			
T3/T4				T3/T130°C		T175°C/T4		T175°C/T130°C		0,00 €	
Temperature class inside/outside (dust only ATEX)											
Gb/Gb				Gb/Db		Db/Gb		Db/Db			
T4/T4				T4/T130°C		T130°C/T4		T130°C/T130°C		0,00 €	
Power supply sample probe											
115 V											255,00 €
230 V											0,00 €
Calibration gas port											
No											0,00 €
6 mm											184,00 €
6 mm with check valve											481,00 €
1/4"											184,00 €
1/4" with check valve											481,00 €
Pressure vessel*											
No											0,00 €
Yes											740,00 €
Purge valve*											
Ball valve											210,00 €
Solenoid valve 110 V (marked with „mb“)											639,00 €
Solenoid valve 230 V (gekennzeichnet mit „mb“)											639,00 €
Solenoid valve 24 V (gekennzeichnet mit „mb“)											639,00 €
none											0,00 €
Pneumatic actuator for internal ball valve											
No (not for GAS 222.35)											0,00 €
Monostable pressure-free opened											674,00 €
Monostable pressure-free closed (not for GAS 222.35)											660,00 €
Limit switch for pneumatic actuator											
No											0,00 €
Yes (marked with „db“ oder „ta“ oder „tb“)											739,00 €
Solenoid valve for pneumatic actuator											
No											0,00 €
110 V (marked with „mb“) (nicht für GAS 222.35)											479,00 €
230 V (marked with „mb“) (nicht für GAS 222.35)											479,00 €
24 V (marked with „mb“) (nicht für GAS 222.35)											479,00 €
Catalogue Price											

*Blowback of explosive atmosphere prohibited.

*For more details on the temperature classes, see the Atex certificate.

1.6 GAS 222, probes for hazardous areas zone 2 (Atex, IECEx & Cl1 Div.2)

1.6.1 GAS 222.11/30/35U Ex2, unheated, blowback for a dust content up to approx. 200g/m³, for hazardous areas

Part. no	4	6	2	2	2	0	2	0	0	Price	Total	
Sample probe basic unit												
1	1	GAS 222.11 Ex2									1.557,00 €	
3	0	GAS 222.30 Ex2									1.487,00 €	
3	5	GAS 222.35U Ex2									1.554,00 €	
Junction box												
0	No										0,00 €	
1	Yes										451,00 €	
Flange												
0	1	Flange DN65 PN6									0,00 €	
0	2	Flange DN3" - 150									80,00 €	
Hazardous area outside and inside												
2	9	Ex-Zone 2 outside, inside safe area									0,00 €	
2	2	Ex-Zone 2 outside and inside									0,00 €	
Temperature class												
3	T3										0,00 €	
4	T4										0,00 €	
Calibration gas port												
0	Without calibration gas port										0,00 €	
1	6mm										184,00 €	
2	6mm with check valve										481,00 €	
3	1/4"										184,00 €	
4	1/4" with check valve										481,00 €	
Capacitive vessel												
0	No										0,00 €	
1	Yes (Not for Zone 2 inside)										740,00 €	
Internal valve for pressurized air												
0	Manual ball valve										210,00 €	
1	Solenoid valve 115 V										688,00 €	
2	Solenoid valve 230 V										688,00 €	
3	Solenoid valve 24 V										688,00 €	
9	Without (when no blow-back is required)										0,00 €	
Pneumatic actuator for internal ball valve												
0	No										0,00 €	
1	Mono stable depressurized open (not for GAS 222.35U)										674,00 €	
2	Mono stable depressurized closed (not for GAS 222.35U)										660,00 €	
Limit switch for pneumatic actuator												
0	No										0,00 €	
1	Yes (not for GAS 222.35U)										739,00 €	
Solenoid valve for pneumatic actuator												
0	No										0,00 €	
1	Yes (not for GAS 222.35U)										479,00 €	
Part. no.	4	6	2	2	2	0	2	0	0	Catalogue Price:		

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Gas Analysis



1.6.2 GAS 222.20 Ex2, heated, downstream filter, applicable for a dust content of up to approx. 2g/m³, for hazardous areas

Part no.	4	6	2	2	2		0	2		3		0	9	0	0	0	Price	Total	
																	Sample probe basic unit		
2	0																GAS 222.20 Ex2	2.407,00 €	
																	Junction box		
0																	No	0,00 €	
1																	Yes	451,00 €	
																	Flange		
0	1																Flange DN65 PN6	0,00 €	
0	2																Flange DN3" - 150	80,00 €	
																	Hazardous area outside and inside		
2	9																Ex-Zone 2 outside, inside safe area	0,00 €	
2	2																Ex-Zone 2 outside and inside	0,00 €	
																	Temperature class		
	3																T3	0,00 €	
	4																T4	0,00 €	
																	Low temperature alarm		
	1																Opening contact; open at operating temperature	0,00 €	
	2																Closing contact; closed at operating temperature	0,00 €	
																	Calibration gas port		
	0																Without calibration gas port	0,00 €	
	1																6mm	184,00 €	
	2																6mm with check valve	481,00 €	
	3																1/4"	184,00 €	
	4																1/4" with check valve	481,00 €	
Part no.	4	6	2	2	2		0	2		3		0	9	0	0	0	Catalogue Price:		

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Gas Analysis



1.6.3 GAS 222.21/31/35 Ex2, blowback, heated, applicable for a dust content up to approx. 2g/m³, for hazardous areas

Part no.	4	6	2	2	2	0	2	3													Price	Total		
Sample probe basic unit																								
2	1																			GAS 222.21 Ex2	3.213,00 €			
3	1																			GAS 222.31 Ex2	2.946,00 €			
3	5																			GAS 222.35 Ex2	3.092,00 €			
Junction box																								
0																						No	0,00 €	
1																						Yes	451,00 €	
Flange																								
0	1																				Flange DN65 PN6	0,00 €		
0	2																				Flange DN3" - 150	80,00 €		
Hazardous area outside and inside																								
2	9																				Ex-Zone 2 outside, inside safe area	0,00 €		
2	2																				Ex-Zone 2 outside and inside	0,00 €		
Temperature class																								
3																						T3	0,00 €	
4																						T4	0,00 €	
Power supply sample Probe																								
3																						115/230 V	0,00 €	
Low temperature alarm																								
1																						Opener (open at operating temperature) (marked with "ic")	0,00 €	
2																						Closer (closed at operating temperature) (marked with "ic")	0,00 €	
Calibration gas port																								
0																						Without calibration gas port	0,00 €	
1																						6mm	184,00 €	
2																						6mm with check valve	481,00 €	
3																						1/4"	184,00 €	
4																						1/4" with check valve	481,00 €	
Capacitive vessel																								
0																						No	0,00 €	
1																						Yes (Not for Zone 2 inside)	740,00 €	
Internal valve for pressurized air*																								
0																						Manual ball valve	210,00 €	
1																						Solenoid valve 115 V	688,00 €	
2																						Solenoid valve 230 V	688,00 €	
3																						Solenoid valve 24 V	688,00 €	
9																						Without (when no blow-back is required)	0,00 €	
Pneumatic actuator for internal ball valve																								
0																						No	0,00 €	
1																						Mono stable depressurized open (not for GAS 222.35)	674,00 €	
2																						Mono stable depressurized closed (not for GAS 222.35)	660,00 €	
Limit switch for pneumatic actuator																								
0																						No	0,00 €	
1																						Yes (not for GAS 222.35)	739,00 €	
Solenoid valve for pneumatic actuator																								
0																						No	0,00 €	
1																						Yes (not for GAS 222.35)	479,00 €	
Part no.	4	6	2	2	2	0	2	3															Catalogue price:	

The hazardous area can be different inside and outside.

Please note, some of accessories can reduce the area classification of the probe! For the correct layout, please read the manuals, charts for accessories and sheets carefully!

Burnable sample gases must be purged with inert gases.

* Blowback of explosive atmosphere prohibited.

The basic unit works properly with the correspondent accessories (for example filter element). Please select the parts and prices from the attached list in chapter 1.9

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Gas Analysis



1.6.5 GAS 222.21/31/35 Atex 2 for zone 2 and GAS Amex for Class I Div. 2, heated, downstream filter, applicable for a dust content of up to approx. 2g/m³

Part no.	4	6	2	2	2	1	6	6	3	0	0	9	9	Price	Total
Sample Probe Basic Unit															
2	1	GAS 222.21 Amex with Flange ANSI 3"- 150lbs, applicable for Class I Div 2												3.140,00 €	
3	1	GAS 222.31 Amex with Flange ANSI 3"- 150lbs, applicable for Class I Div 2												2.871,00 €	
3	5	GAS 222.35 Amex with Flange ANSI 3"- 150lbs, applicable for Class I Div 2												3.018,00 €	
Ex Temperature Classes															
3	T3													0,00 €	
4	T4													0,00 €	
Power Supply															
	115/230V													0,00 €	
Calibration Gas Port															
0	without Calibration Gas Port													0,00 €	
1	6mm													184,00 €	
2	6mm + check valve													481,00 €	
3	1/4"													184,00 €	
4	1/4" + check valve													481,00 €	
	Back Purge with Capacitive Vessel ²⁾													740,00 €	
Heater for Capacitive Vessel															
1	yes													333,00 €	
9	no													0,00 €	
Internal valve for Pressurized Air/Power Supply															
0	manual													210,00 €	
1	120 V/ 60Hz													688,00 €	
2	240 V/ 60Hz													688,00 €	
9	without (if there is no blowback required)													0,00 €	
Pneumatic actuator for Internal Ball Valve															
0	manual (not for GAS 222.35 Amex)													0,00 €	
1	Mono stable depressurised open (not for GAS 222.35 Amex)													674,00 €	
2	Mono stable depressurised closed (not for GAS 222.35 Amex)													660,00 €	
9	without (only for GAS 222.35 Amex)													0,00 €	
Solenoid Valve for Pneumatic Actuator															
3	3/2- way solenoid valve (not for GAS 222.35 Amex)													307,00 €	
9	without solenoid valve													0,00 €	
Part no.	4	6	2	2	2	1	6	6	3	0	0	9	9	Catalogue Price	

Due to the revision of the approval, not all versions are currently available. Please ask for this.

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Gas Analysis



1.7 GAS 222.15-MA probe for marine application

1.7.1 GAS 222.15-MA, heated, downstream filter, for vibrating applications

Part no.	4	6	2	2	2	1	5	M	A	9	9	0	3		0	0	0	Price	Total				
																		Sample Probe Basic Unit					
																		Gas 222.15-MA		1.822,00 €			
																		Flange					
																		0	DIN DN 65 PN6		0,00 €		
																		1	ANSI 3" - 150 lbs		80,00 €		
																		Power Supply					
																			3	155/230 V		0,00 €	
																		Calibration Gas Port					
																		0	without Calibration Gas Port		0,00 €		
																		1	6mm		184,00 €		
																		2	6mm + check valve		481,00 €		
																		3	1/4"		184,00 €		
																		4	1/4" + check valve		481,00 €		
																		Low temperature alarm					
																		1	Opening contact; open at operating temperature		0,00 €		
																		2	Closing contact; closed at operating temperature		0,00 €		
Part no.	4	6	2	2	2	1	5	M	A	9	9	0	3		0	0	0	Catalogue Price					

part-no.	type	unit price
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1.8 Gas Probes for special applications

*To customize the base unit to meet the needs on any application, please refer to data sheet DE461099. Accessories for Gas Sample Probes are various probe tubes, unheated extensions, filters, calibration gas ports and ANSI flange.

1.8.1 High temperature Probe Gas 222.20-HT

4622220HT	GAS 222.20-HT, heatable up to 280°C 230 VAC 50/60Hz Basis unit without integrated down stream filter, covered by a weather protection shield, cartridge heaters are regulated by an electr. controller, high and low temp alarm outputs, flange gasket and screws	3.277,00 €
4622222HT	GAS 222.20-HT, heatable up to 280°C 115 VAC 50/60Hz Basis unit without integrated down stream filter, covered by a weather protection shield, cartridge heaters are regulated by an electr. controller, high and low temp alarm outputs, flange gasket and screws	3.277,00 €

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part-no. **type** **unit price**

1.8.3 Sample Gas Probe Denox-MB, heated, with downstream filter inside GfP housing, for dust loads up to 2g/m³, adjustable up to 280 °C with Pt100

Part no.	4	6	2	2	2	5	0			0	0	0	0		Price	Total
															Sample Probe Basic Unit	
															GAS 222.20 Denox	11.847,00 €
															Flange	
													1		DIN DN 65 PN6	0,00 €
													3		ASME DN3" - 150	151,00 €
															Voltage	
													1		0,00 €	0,00 €
													2		0,00 €	0,00 €
															Calibrating gas Connection	
													0		no calibration gas connection	0,00 €
													1		6 mm	184,00 €
													2		6 mm with + check valve	481,00 €
													3		1/4"	184,00 €
													4		1/4" with + check valve	481,00 €
Part no.	4	6	2	2	2	5	0								Catalogue Price	

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part-no.	type	unit price
1.9 Accessories		
1.9.1 Sample tubes for GAS 222.1_ / 222.2_		
462220010300	Sample tube 01, L=300mm tube \varnothing 12x2 with G3/4 connector material stainless steel 1.4571 up to 600 °C	204,00 €
462220010500	Sample tube 01, L=500mm tube \varnothing 12x2 with G3/4 connector material stainless steel 1.4571 up to 600 °C	204,00 €
462220011000	Sample tube 01, L=1000mm tube \varnothing 12x2 with G3/4 connector material stainless steel 1.4571 up to 600 °C	204,00 €
462220011500	Sample tube 01, L=1500mm tube \varnothing 12x2 with G3/4 connector material stainless steel 1.4571 up to 600 °C	237,00 €
462220012000	Sample tube 01, L=2000mm tube \varnothing 12x2 with G3/4 connector material stainless steel 1.4571 up to 600 °C	273,00 €
4622200205	Extension 02 - L=0,5m ceramic tube \varnothing 24x2,5 bedded in a stainless steel 1.4571 support with G3/4 connector ceramic tube up to 1600°C	511,00 €
4622200210	Extension 02 - L=1m ceramic tube \varnothing 24x2,5 bedded in a stainless steel 1.4571 support with G3/4 connector ceramic tube up to 1600°C	640,00 €
4622200215	Extension 02 - L=1,5m ceramic tube \varnothing 24x2,5 bedded in a stainless steel 1.4571 support with G3/4 connector ceramic tube up to 1600°C	762,00 €

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part-no.	type	unit price
462220060500	Sample tube 06, L=500mm Hastelloy C4 tube ϕ 12x1, with G3/4 connector made of 1.4571, up to 400 °C	506,00 €
462220061000	Sample tube 06, L=1000mm Hastelloy C4 tube ϕ 12x1, with G3/4 connector made of 1.4571, up to 400 °C	506,00 €
462220061500	Sample tube 06, L=1500mm Hastelloy C4 tube ϕ 12x1, with G3/4 connector made of 1.4571, up to 400 °C	756,00 €
462220062000	Sample tube 06, L=2000mm Hastelloy C4 tube ϕ 12x1, with G3/4 connector made of 1.4571, up to 400 °C	1.005,00 €
462220040500	Sample tube 08, L=500mm Inconel 600 tube ϕ 21,3x2,77 with G 3/4 connector made of 1.4571 tube up to 1050 °C	626,00 €
462220041000	Sample tube 08, L=1000mm Inconel 600 tube ϕ 21,3x2,77 with G 3/4 connector made of 1.4571 tube up to 1050 °C	626,00 €
462220041500	Sample tube 08, L=1500mm Inconel 600 tube ϕ 21,3x2,77 with G 3/4 connector made of 1.4571 tube up to 1050 °C	912,00 €
462220042000	Sample tube 08, L=2000mm Inconel 600 tube ϕ 21,3x2,77 with G 3/4 connector made of 1.4571 tube up to 1050 °C	1.196,00 €
462220042500	Sample tube 08, L=2500mm Inconel 600 tube ϕ 21,3x2,77 with G 3/4 connector made of 1.4571 tube up to 1050 °C	1.482,00 €
462220160500	Sample tube 12, L=500mm tube ϕ 20x2 with G3/4 connector material: 1.4571 up to 600°C	218,00 €

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part-no.	type	unit price
462220161000	Sample tube 12, L=1000mm tube \varnothing 20x2 with G3/4 connector material: 1.4571 up to 600°C	218,00 €
462220161500	Sample tube 12, L=1500mm tube \varnothing 20x2 with G3/4 connector material: 1.4571 up to 600°C	288,00 €
462220162000	Sample tube 12, L=2000mm tube \varnothing 20x2 with G3/4 connector material: 1.4571 up to 600°C	360,00 €
46222017	Extension 13 Kanthal-tube \varnothing 15x1,3 with G3/4 connector made of stainless steel 1.4571 L = 1000 mm max. temperature short-time up to 1400°C permanent 1250°C	864,00 €
46222040	in situ filter with demistor l = 800 mm material: PVDF / ETFE	860,00 €
4622204203	Sample tube with demister L=300mm tube \varnothing 36x2 material 1.4571	459,00 €
4622204205	Sample tube with demister L=500mm tube \varnothing 36x2 material 1.4571	504,00 €
4622204210	Sample tube with demister L=1000mm tube \varnothing 36x2 material 1.4571	613,00 €

*This probe is approved for use in zone 1, 21 and for gas sampling from zone 0, 20 (hazardous areas). Datasheet DE461099 - Accessories, page 5.

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part-no.	type	unit price
1.9.2 Filter elements for GAS 222.1_ / GAS 222.2_		
46222026	Sintered ceramic filter element incl. O-rings, material: viton retention rate: 3µm pressure drop <1 mbar at Q=500NI/h	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 pressure drop 35 mbar at Q=500NI/h	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 €
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: >99,9998 % of 0,1µm (air)	53,00 €
462220671P	Glas fibre element complete with O-Rings Perfluorelastomer retention rate: >99,9998 % of 0,1µm (air)	295,00 €
46222163	closing handle with filter tube and filter wool	276,00 €

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part-no.	type	unit price
46222163P	closing handle with filter tube and filter wool with O-rings material Perfluorelastomer	430,00 €
46222167	filter wool package 100 g	31,00 €
46222012	Set of O-rings for filter element and probe handle material: viton O-Ring grease included	27,00 €
46222024	set of orings for probe and filterelement material: perfluorelastomere	270,00 €
462220100011	Set of O-rings operating temperature -40°C up to +200°C incl. O-ring grease	249,00 €

*It should be noted that depending on the accessories used, the permitted area of application may be restricted. Data sheet DD461099 accessories, page 5.

1.9.3 Filter elements for GAS 222.11 / .21 / .3_

46222303	Extension 03 with upstream filter made of sintered stainless steel, G 3/4 connector L = 237mm, up to 600 °C	587,00 €
462223031	Extension 031 with upstream filter made of sintered stainless steel, G 3/4 connector, with displacer L = 235 mm, up to 600 °C	787,00 €
46222304	Extension 04 with upstream filter, made of stainless steel, and G 3/4 connector L = 538 mm, up to 600 °C	1.074,00 €

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part-no.	type	unit price
462223041	Extension 041 with upstream filter, made of stainless steel, G 3/4 connector with displacer L = 538 mm, up to 600 °C	1.348,00 €
46222307	Extension 07 with upstream filter made of sintered ceramic with adaptor flange DN65 PN6 stainless steel with studs M12 on both sides L=478 up to 1000 °C	1.696,00 €
46222307C	In-situ filter 07 sintered ceramic with adapter flange ANSI 3"-150lb stainless steel 1.4571, with studs M16 on both sides, retention rate 2µm, L=478 mm, T up to 1000°C	1.696,00 €
46222330	Extension 07, L=978mm retention rate 2µm with upstream filter made of sintered ceramic with adaptor flange DN65 PN6 stainless steel with bolts M12 on both sides up to 1000 °C	2.151,00 €
46222330C	In-situ filter 07 sintered ceramic with adapter flange ANSI 3"-150lb stainless steel 1.4571, with studs M16 on both sides, retention rate 2µm, L=978 mm, T up to 1000°C	2.151,00 €
46222359	inline filter made of stainless steel Retention rate 5µm L=229mm up to 600°C	594,00 €

*It should be noted that depending on the accessories used, the permitted area of application may be restricted. Data sheet DD461099 accessories, page 5.

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part-no.	type	unit price
1.9.4 Protection shields		
462223034	Protection shield for extension 03 material: stainless steel	235,00 €
462223044	Protection shield for extension 04 material: stainless steel	492,00 €
1.9.5 Extensions		
4622230320200	extension G3/4 material stainless steel 1.4571 L = 200mm	424,00 €
4622230320400	extension G3/4 material stainless steel 1.4571 L = 400mm	424,00 €
4622230320500	extension G3/4 material stainless steel 1.4571 L = 500mm	424,00 €
4622230320700	extension G3/4 material stainless steel 1.4571 L = 700mm	424,00 €
4622230321000	extension G3/4 material stainless steel 1.4571 L = 1000mm	424,00 €
4622230321200	extension G3/4 material stainless steel 1.4571 L = 1200mm	467,00 €
4622230321500	extension G3/4 material stainless steel 1.4571 L = 1500mm	530,00 €
4622230322000	extension G3/4 material stainless steel 1.4571 L = 2000mm	637,00 €
4622235910250	extension G1/2 for extension 35 material: 1.4571 L=250mm	421,00 €

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part-no.	type	unit price
4622235910500	extension G1/2 for extension 35 material: 1.4571 L=500mm	421,00 €
4622235910700	extension G1/2 for extension 35 material: 1.4571 L=700mm	421,00 €
4622235911500	extension G1/2 for extension 35 material: 1.4571 L=1500mm	513,00 €
462223036	Adder for extension, L= 500mm heated with PT100, flange DN65 PN6 with staybold M12 on both sides incl. flange gasket and nuts operating temperature up to 200°C heater 230V 50Hz without temperature controller	2.530,00 €
462223033	Adder for extension, L= 1000mm heated with PT100, flange DN65 PN6 with staybold M12 on both sides incl. flange gasket and nuts operating temperature up to 200°C heater 230V 50Hz without temperature controller	2.673,00 €
462223136	Extension G/F heated up to 200°C, 115VAC 60 Hz DN 65 PN 6 flange with M12 bolts on both sides, incl. flange gasket and nuts on one side and G3/4 female connector at other end, PT100 junction box, without temp control L up to 500 mm	2.530,00 €

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part-no.	type	unit price
462223133	Extension G/F heated up to 200°C, 115 V AC 60 Hz, DN 65 PN 6 flange with M12 bolts on both sides, incl. flange gasket and nuts on one side and G3/4 female connector at other end,PT100 junction box,without temp control L up to 1000 mm	2.673,00 €
46222292	Option second temperature controller for BRS with high/ low alarm contact max. 3 A AC built in temperature controller BRS for heated extension	545,00 €

1.9.6 Extensions with ANSI flange and CSA approval

462223036C1	extension GF ANSI/CSA, heated heater 115V 100W, L=500mm flange ANSI 3"-150 with bolts M16 on both sides incl. flange gasket and nuts wetted parts 1.4571 operating temperature up to 200°C with PT100, without temperature controller	2.675,00 €
462223033C1	extension GF ANSI/CSA, heated heater 115V 250W, L=1000mm flange ANSI 3"-150 with bolts M16 on both sides incl. flange gasket and nuts wetted parts 1.4571 operating temperature up to 200°C with PT100, without temperature controller	2.818,00 €

1.9.7 Diverse accessories

462220102	GAS 222.15 bracket with clamp for heated sample line material: 1.4301/rubber	46,00 €
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part-no.	type	unit price
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To make the backpurge (blowback) very effective and to provide the best life time of the filter element we recommend to attach an air reservoir (capacitive vessel) to the probe.

1.10 Blowback systems

1.10.1 Blowback control unit

46222199	Back flushing control unit RSS230 Control unit for back purging voltage 24V DC	2.390,00 €
46222299	Back flushing control unit RSS230 Control unit for back purging voltage 115/230 V, 50/60Hz	2.405,00 €

1.10.2 Adapter flanges

46222014	Adapter flange 3"-150 lb/sq.in raised face as auxiliary attached to GAS 222 series probes	on request
46222035	Adaptor flange DN65 PN6 to ANSI DN4"-150 raised face as auxiliary attached to GAS 222 series probes	on request
46222068	Adapter flange 2 1/2"-150 lb/sq.in. raised face as auxiliary attached to GAS 222 series probes	on request
46222034	Adapter flange for GAS 222 DN65 PN6 - ANSI 3"-300 lb/sq.in. material: 1.4571	on request

Advice: Our comprehensive range of sample probes comprises more than the GAS 222 and APO series. Please ask for application specific solutions.

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
1.10.3 Male connections		
9029000	Male connection NPT Ø 6mm - 1/4"NPT 768L SS 6MM X 1/4, stainless steel 316	28,00 €
9029001	Male connection NPT Ø 8mm - 1/4"NPT 768L SS 8MM X 1/4 stainless steel 316	36,00 €
9029002	Male connection RP Ø 12mm - 3/8" ISO BSP-P Typ B (RP) 768LOK SS 12MM X 3/8 stainless steel 316	95,00 €
9008584	male connector SS-400-1-4, Ø1/4" - NPT 1/4 stainless steel 316	25,00 €
9029011	Male connection NPT Ø 3/8" - 1/4" NPT 768L SS 3/8 X 1/4 stainless steel 316	38,00 €
9008582	Male connector SS-810-1-6RT, Ø1/2" - RT 3/8 SS 316	52,00 €

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part-no.	type	unit price
1.10.4 Sample gas probes Series ECO		
4622290	Sample gas probe ECO-01-unheated basis unit without upstream filter with solenoid valves 24 VDC and capacitive tank V=2l incl. flange gasket and screws	1.822,00 €

Filter elements for ECO probe

46222007	Extension 10 with upstream filter consisting of polyester filter hose on a support made from stainless steel 1.4571, G 3/4 connector, L=350 mm, up to 135°C	491,00 €
46222015	Extension 11 with upstream filter consisting of PTFE on a support made from stainless steel 1.4571, G 3/4 connector, L= 350 mm, up to 260°C	583,00 €
462220071	Spare filter tube made of polyester, L=350mm, with clamp made from stainless steel for extension 10	110,00 €
462220072	Spare filter tube made of PTFE, L=350 mm with clamb made of stainless steel for extension 11	208,00 €

1.10.5 Sample gas probes Series APO

46006000	Basic flange APO G; unheated for various extension mat.: 1.4571 incl. flange gasket, screws and nuts	311,00 €
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Use GAS accessories with G3/4 for APO

Portable sample probes see chapter 7

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2 Sample gas pumps

2.1 Sample gas pumps for hazardous areas (ATEX)

2.1.1 Sample gas pumps P2.2 /P2.4 Atex, 230 V AC 50/60 Hz, 115 V AC 50/60 Hz

Part no.	42										0	00			Price	Total	
												Basic type					
61															P2.2 Atex 400l/h	1.247,00 €	
62															P2.4 Atex 400l/h	2.208,00 €	
												Motor supply					
7															230 V 50/60 Hz	0,00 €	
8															115 V 50/60 Hz	144,00 €	
9															380 - 420 V 50 Hz	144,00 €	
0															500 V 50 Hz	238,00 €	
												Pump head position					
1															Normal pos. Vertical	0,00 €	
2															Pointing downwards *	0,00 €	
												Pump head material					
1															PTFE	0,00 €	
2															SS 1.4571	295,00 €	
3															PTFE with bypass valve *	231,00 €	
4															SS 1.4571 with bypass valve *	561,00 €	
												Valve material					
1															to 100°C PTFE/PVDF *	0,00 €	
2															to 140°C PTFE/PEEK	188,00 €	
												Male stud couplings (depending on pump head)					
														PTFE pump head	Stainless steel pump head		
9															DN 4/6 (standard)	6mm (standard)	0,00 €
1															DN 6/8	8 mm	0,00 €
2															3/8"-1/4"	3/8"	0,00 €
3															1/4"-1/8"		0,00 €
4															1/4"-1/6"	1/4"	0,00 €
												Mounting accessories					
9															including mounting console and buffer *	0,00 €	
Part no.	42														Catalogue Price:		

* only possible for P2.2 ATEX, not possible for P2.4 ATEX.

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2.1.2 Sample gas pumps P2.72 /P2.74 Atex, 230 V AC 50/60 Hz, 115 V AC 50/60 Hz

Part no.	42			2	2		0	00	Price	Total
									Basic type	
65									P2.72 Atex 700l/h	1.463,00 €
66									P2.74 Atex 700l/h	2.422,00 €
									Motor supply	
7									230 V 50/60 Hz	0,00 €
8									115 V 50/60 Hz	144,00 €
9									380 - 420 V 50 Hz	144,00 €
0									500 V 50 Hz	238,00 €
									Pump head position	
1									Normal pos. Vertical	0,00 €
2									Pointing downwards *	0,00 €
									Pump head material	
2									SS 1.4571	295,00 €
4									SS 1.4571 with bypass valve *	561,00 €
									Valve material	
2									to 140°C PTFE/PEEK	188,00 €
									Male stud couplings	
9									6mm (standard)	0,00 €
1									8 mm	0,00 €
2									3/8"	0,00 €
4									1/4"	0,00 €
									Mounting accessories	
9									including mounting console and buffer *	0,00 €
Part no.	42			2	2		0	00	Catalogue Price:	

* only possible for P2.72 ATEX, not possible for P2.74 ATEX.

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2.2 Sample gas pumps for hazardous areas (North America)

2.2.1 Sample gas pumps P2.2 / P2.82 AMEX and P2.4 / P2.84 AMEX, 230 V AC 50/60 Hz, 115 V AC 50/60 Hz

Part no.	42						9	0	00	Price	Total	
Basic type												
71										P2.2 Amex 400l/h	1.247,00 €	
72										P2.4 Amex 400l/h	2.208,00 €	
73										P2.82 Amex 800l/h	1.463,00 €	
74										P2.84 Amex 800l/h	2.422,00 €	
Motor supply												
7										230 V 50/60 Hz	202,00 €	
8										115 V 50/60 Hz	144,00 €	
Pump head position												
1										Normal pos. Vertical	0,00 €	
2										Pointing downwards *	0,00 €	
Pump head material												
1										PTFE	0,00 €	
2										SS 1.4571	295,00 €	
3										PTFE with bypass valve *	231,00 €	
4										SS 1.4571 with bypass valve *	561,00 €	
Valve material												
1										to 100°C PTFE/PVDF **	0,00 €	
2										to 140°C PTFE/PEEK	188,00 €	
Male stud couplings (depending on pump head)												
PTFE pump head												
Stainless steel pump head												
9										1/4"-1/6" (standard)	1/4" (standard)	0,00 €
1										DN 6/8	8 mm	0,00 €
2										3/8"-1/4"	3/8"	0,00 €
3										1/4"-1/8"		0,00 €
5										DN 4/6	6 mm	0,00 €
Mounting accessories												
9										including mounting console and buffer *	0,00 €	
Part no.	42						9	0	00	Catalogue Price:		

* only for P2.2 AMEX and P2.82 AMEX available, not for P2.4 AMEX and P2.84 AMEX.

** 100°C valves only for P2.2 AMEX, not for P2.83 AMEX, P2.4 AMEX and P2.83 AMEX pumps suitable.

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2.3 Sample gas pumps for non-hazardous areas and modular design

2.3.1 Sample gas pumps P2.3C / P2.3 / P2.83 and P2.4C / P2.4 / P2.84, 230 V AC 50/60 Hz, 115 V AC 50/60 Hz

Part no	42								9	0	00		Price	Total
Basic type														
52													P2.3C 400l/h (II 3G/- h IIB T4 Gc)	1.047,00 €
53													P2.4C 400l/h (II 3G/- h IIB T4 Gc)	1.960,00 €
56													P2.3 400l/h	906,00 €
57													P2.4 400l/h	1.821,00 €
63													P2.83 800l/h	1.123,00 €
64													P2.84 800l/h	2.032,00 €
Motor supply														
1													230V 50/60Hz.	0,00 €
2													115V 50/60Hz.	21,00 €
5													400V 50/60Hz.	144,00 €
Pump head position														
1													Normal pos. vertical	0,00 €
2													Pointing downwards *	0,00 €
Pump head material														
1													PTFE	0,00 €
2													SS 1.4571	295,00 €
3													PTFE with bypass valve *	231,00 €
4													SS 1.4571 with bypass valve *	561,00 €
Valve material														
1													to 100°C PTFE/PVDF **	0,00 €
2													to 160°C PTFE/PEEK	188,00 €
Male stud couplings (for voltages 230V und 400V)														
PTFE pump head														
9													DN 4/6 (Standard)	0,00 €
1													DN 6/8	0,00 €
2													3/8"-1/4"	0,00 €
3													1/4"-1/8"	0,00 €
4													1/4"-1/6"	0,00 €
Stainless steel pump head														
													6mm (Standard)	0,00 €
													8mm	0,00 €
													3/8"	0,00 €
													1/4"	0,00 €
Male stud couplings (for voltage 115V)														
PTFE pump head														
9													1/4"-1/6" (Standard)	0,00 €
1													DN 6/8	0,00 €
2													3/8"-1/4"	0,00 €
3													1/4"-1/8"	0,00 €
5													DN 4/6	0,00 €
Stainless steel pump head														
													1/4" (Standard)	0,00 €
													8 mm	0,00 €
													3/8"	0,00 €
													6 mm	0,00 €
Mounting accessories														
9													including mounting console and buffer *	0,00 €
Part no	42								9	0	00		Catalogue Price:	

- * only for P2.3, P2.3C and P2.83 available, not for P2.4, P2.4C and P2.84
- ** 100°C valves only for P2.3 and P2.3C, not for P2.4, P2.4C P2.83 and P2.84 pumps suitable.

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2.3.2 Sample gas pumps P4.3 and P4.83, 230 V AC 50/60 Hz and 115 V AC 50/60 Hz

Part no.	42						9	00		Price	Total	
Basic type												
80									P4.3, 2x400l/h	1.439,00 €		
81									P4.83, 2x800l/h	1.868,00 €		
Motor supply												
1									230V 50/60Hz.	0,00 €		
2									115V 50/60Hz.	40,00 €		
Pump head position												
1									Normal pos. vertical	0,00 €		
2									Pointing downwards	0,00 €		
Pump head material												
1									PTFE	0,00 €		
2									SS 1.4571	585,00 €		
3									PTFE with bypass valve *	461,00 €		
4									SS 1.4571 with bypass valve *	1.119,00 €		
Valve material												
1									to 100°C PTFE/PVDF **	0,00 €		
2									to 160°C PTFE/PEEK	370,00 €		
Male stud couplings (for voltages 230 V)												
								PVDF pump head		Stainless steel pump head		
9								DN 4/6 (Standard)	6mm (Standard)	0,00 €		
1								DN 6/8	8 mm	0,00 €		
2								3/8"-1/4"	3/8"	0,00 €		
3								1/4"-1/8"		0,00 €		
4								1/4"-1/6"	1/4"	0,00 €		
Male stud couplings (for voltages 115V)												
								PVDF pump head		Stainless steel pump head		
9								1/4"-1/6" (Standard)	1/4" (Standard)	0,00 €		
1								DN 6/8	8 mm	0,00 €		
2								3/8"-1/4"	3/8"	0,00 €		
3								1/4"-1/8"		0,00 €		
5								DN 4/6	6 mm	0,00 €		
Mounting accessories												
							9		including mounting console and buffer	0,00 €		
Connecting set for parallel mode												
							0		without	0,00 €		
							1		Hose connecting set for PVDF/PTFE ***	84,00 €		
							2		Pipe connecting set 1.4571/1.4401 ***	134,00 €		
Part no.	42						9	00	Catalogue Price:			

* This option does not apply with parallel operation.

** 100°C valves only for P4.3, not for P4.83 pumps suitable.

*** A piping set for parallel operation can be select optional. Please note that a PTFE piping set is only used in PTFE pump heads and a 1.4571 piping set is only used in a 1.4571 pump head.

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
2.4 Accessories for P2.x and P4.x		
4256002	Console with shock absorber	116,00 €
42630019	VA piping set for parallel operation of P4.3 sample gas pump metric version	130,00 €
42630020	VA piping set for parallel operation of P4.3 sample gas pump inch version	130,00 €
42630021	PTFE piping set for parallel operation of P4.3 sample gas pump metric version	84,00 €
42630022	PTFE piping set for parallel operation of P4.3 sample gas pump inch version	84,00 €

part-no.	type	unit price
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2.5 Spare parts for motor protection switch P2.x

* the prices stated in chapter 2.5 are non-discountable!

Installing the motor protection switch outside the EX area

9132020041	motor protecting switch 0,7-1A with aux. switch 1NO/1NC	162,00 €
9132020054	motor protecting switch 2,2-3,2A 3RV1011-1DA15	114,00 €

Installing the motor protection switch inside the EX area Zone 1 or 2 (ATEX only)

9132020036	motor protection switch adjust range 0,63 - 1A for assembling in Ex-area zone 1 und 2 8146/5-V27-101-055-00-11-1	947,00 €
9132020035	motor protection switch 8146/5-V27 adjust range 2,5-4A 115 V 50/60Hz (0/230/400/500V) for assembling in hazardous area zone 1, 2, 21, 22 <8527/21-08-0001	820,00 €
9132020033	motor protection switch 8146/5-V27-101-075-00-11-1 adjust range: 1,6 - 2,5A for assembling in hazardous area zone 1 and 2	880,00 €

part-no.	type	unit price
2.6 Spare parts for P2.x and P4.x		
2.6.1 Spare parts for sample gas pumps		
4200075	Spare part set 608 consisting of: connecting rod with ball bearing; eccentric with counterweight and setscrew	193,00 €
4200015	Bellow for P2.2, P2.3, P2.4 and P4.3 pumps Material: PTFE	165,00 €
4201002	Set of valves for 100°C (in- and outlet) material: PVDF/PTFE	166,00 €
4202002	Set of valves for 160 °C (in- and outlet) material: PEEK/PTFE	356,00 €
4200031	Eccentric with counterweight and setscrew for pump P2.83/P2.84	117,00 €
4200030	bellow PTFE with screw for P2.8X/P4.8X	210,00 €
4202011	In-, outlet valve suitable for 160°C for P2..-pump material: PEEK/PTFE	187,00 €
4201006	In- or outlet valve material: PTFE/PVDF, up to 100°C (1 pcs.) for P2. - pump	90,00 €
4201004	Pump body for P2 pump Material:PTFE	221,00 €
4200034	Spare part set 4-608 consisting of: connecting rod with ball bearing and nut eccentric with counterweight and setscrew	236,00 €

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part-no.	type	unit price
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2.7 Sample Gas Pumps P1.x

2.7.1 Sample gas pumps P1.1, P1.1E

Part no.	42	28			1			00	Price	Total
Basic type										
28									P1.1 280 l/h	304,00 €
Motor supply										
1									230V 50Hz.	0,00 €
2									115V 60Hz.	23,00 €
4									24 V DC	284,00 €
Pump head position										
1									normal pos. vertical	0,00 €
2									pointing downwards	0,00 €
Material pump head										
1									PTFE	45,00 €
2									VA (1.4571)	83,00 €
3									PVDF with bypass valve	140,00 €
4									PVDF	0,00 €
Material valves										
1									up to 70 °C PTFE/PVDF	
Male stud couplings / pipe fittings										
0									without fittings	0,00 €
1									PVDF DN 4/6 *	36,00 €
2									PVDF 1/4"-1/6" *	36,00 €
3									PVDF 1/4"-1/8" *	36,00 €
5									VA (1.4401) 6 mm **	75,00 €
6									VA (1.4401) 1/4" **	75,00 €
Mounting accessories										
0									without mounting accessories	0,00 €
1									mounting brackets and set of vibration dampers	38,00 €
2									set of vibration dampers only	26,00 €
Housing ***										
0									no housing	0,00 €
1									housing incl. connection cable, length 3 m	45,00 €
2									housing incl. ON/OFF switch and connection cable, length 3 m	69,00 €
Approval										
--									without	0,00 €
FM									FM-Approval	68,00 €
Part no.	42	28			1			00	Catalogue Price:	

* only for PTFE and PVDF pump head

** only for SS pump head

*** not for 24 V DC, the motor is already protected against touching, see drawing in data sheet

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Gas Analysis



part-no.	type	unit price
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2.7.2 Sample gas pumps P1.2, P1.2 E

Part no.	42	29	1	00	Price	Total
Basic type						
29					P1.2 280 l/h (II 3G/- c IIB T4)	331,00 €
Motor supply						
1					230V 50Hz.	0,00 €
2					115V 60Hz.	23,00 €
Pump head position						
1					normal pos. vertical	0,00 €
2					pointing downwards	0,00 €
Material pump head						
1					PTFE	45,00 €
2					VA (1.4571)	83,00 €
3					PVDF with bypass valve	140,00 €
4					PVDF	0,00 €
Material valves						
1					up to 70 °C PTFE/PVDF	0,00 €
Male stud couplings / pipe fittings						
0					without fittings	0,00 €
1					PVDF DN 4/6 *	36,00 €
2					PVDF 1/4"-1/6" *	36,00 €
3					PVDF 1/4"-1/8" *	36,00 €
5					VA (1.4401) 6 mm **	75,00 €
6					VA (1.4401) 1/4" **	75,00 €
Mounting accessories						
0					without mounting accessories	0,00 €
1					mounting brackets and set of vibration	38,00 €
2					set of vibration dampers only	26,00 €
Housing						
0					no housing	0,00 €
1					housing incl. connection cable, length 3 m	45,00 €
2					housing incl. ON/OFF switch and connection cable, length 3 m	69,00 €
Part no.	42	29	1	00	Catalogue price:	

* only for PTFE and PVDF pump head

** only for SS pump head

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part-no.	type	unit price
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2.7.3 Sample gas pumps P1.3; P1.3 E

Part no.	42	30			1			00	Price	Total
									Basic model	
		30							P1.3 ATEX, IECEx, US/Canada	430,00 €
									Motor voltage	
			1						230V 50Hz. 0,44A	0,00 €
			2						115V 60Hz. 0,76A	23,00 €
			4						24 V DC 0,8 A	284,00 €
									Pump head position	
			1						Position vertical	0,00 €
			2						Turned by 180°	0,00 €
									Pump head material	
			1						PTFE	45,00 €
			2						VA (1.4571)	83,00 €
			3						PVDF with bypass valve	140,00 €
			4						PVDF	0,00 €
									Valve material	
			1						Up to 70°C; PTFE/PVDF	0,00 €
									Screw in connections (depending on pump head)	
			0						Without	0,00 €
			1						PVDF DN 4/6 *	36,00 €
			2						PVDF 1/4"-1/6" *	36,00 €
			3						PVDF 1/4"-1/8" *	36,00 €
			5						VA (1.4401) 6 mm **	75,00 €
			6						VA (1.4401) 1/4" **	75,00 €
									Mouting accessories	
			0						without	0,00 €
			1						Mounting bracket and set of vibration dampers	38,00 €
			2						Set of vibration dampers only	26,00 €
									Housing ***	
			0						without	0,00 €
			1						Housing incl. 3 m connection cable	45,00 €
Part no.	42	30			1			00	Catalogue price:	

* PTFE or PVDF pump body only.

** VA pump body only

*** not for 24 V DC, the motor is already protected against touching, see drawing in data sheet

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part-no.	type	unit price
2.7.4 Accessories for P1.x		
4228061	4 x vibration damper Set incl. lock washer and nuts d=10mm h=10mm thread 1: M4x4 thread 2: M4x8	26,00 €
4228060	Mounting console P1.X 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 €
2.7.5 Spare parts for P1.x		
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 €
4228066	Set In- or outlet valve material: PTFE/PVDF, up to 70°C (2 pcs.) for P1.X and P1.XE	110,00 €
4228003	bellow typ 4 for P1.X and P1.XE material: PTFE-TFM 1635	107,00 €

part-no.	type	unit price
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3 Sample gas filters

3.1 Sample gas filters PVDF

The article numbers of filters with imperial sized threads are marked with an "I" at the end.

4150099	Filter	241,00 €
4150099I	AGF-PV-30-S2 Material: PVDF/Glass Retention: 2 micron with filter element S2	
4150199	Filter with drain	269,00 €
4150199I	AGF - PV - 30 - S2 - A Material: PVDF/Glass Retention: 2 micron with filter element S2	
41502999	Filter	259,00 €
41502999I	AGF - PV - 30 - F2 Material: PVDF/Glass Retention: 2 micron with filter element F2	
4151999	fine filter with condensate outlet	276,00 €
4151999I	AGF - PV - 30 - F2 - A material: PVDF/glass Retention: 2 Micron with filter element F2	
4150799	Filter	367,00 €
4150799I	AGF - PV - 30 - F2L Material: PVDF/Glass Retention: 2 micron with filter element F2L	
4150299	Filter	259,00 €
4150299I	AGF - PV - 30 - F25 Material: PVDF/Glass Retention: 25 micron with filter element F25	
4150399	Filter with drain	295,00 €
4150399I	AGF - PV - 30 - F25 - A Material: PVDF/Glass Retention: 25 micron with filter element F25	

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part-no.	type	unit price
4150499	Filter	367,00 €
4150499I	AGF - PV - 30 - F25L Material: PVDF/Glass Retention: 25 micron with filter element F25	
4150599	Filter with drain	392,00 €
4150599I	AGF - PV - 30 - F25L - A Material: PVDF/Glass Retention: 25 micron with filter element F25L	
4153099	activated carbon filter	306,00 €
4153099I	AGF - PV - 30 - AKF Material: PVDF/Glass filter element:activated-carbon monobloc with sintered police- filter-coat PE max. temp. 60°C air/gas material: PE/PA GF 15 sealing: viton thread: 3/8" UNF	
41502994	Filter with screw in adaption	317,00 €
41502994I	AGF-PV-30-0,1-RA Material: PVDF/Glass/borosilicate microglass Retention: 0,1µm with filter element 0,1-RA	
41502995	Filter with screw in adaption	296,00 €
41502995I	AGF-PV-30-F2-RA Material: PVDF/Glass Retention: 2 micron with filter element F2-RA	

<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4151399	Filter AGF - T 30 - S2 Material: PTFE / Glass Retention: 2 micron with filter element S2	434,00 €
4151799	Filter AGF - T 30 - F 2 Material: PTFE/Glass Retention: 2 micron with filter element F2	456,00 €
4151099	Filter AGF - T - 30 - F2L Material: PTFE / Glass Retention: 2 micron with filter element F2L	502,00 €
4151199	Filter AGF - T -30 - F25 Material: PTFE / GLASS Retention: 25 micron with filter element F25	467,00 €
4151299	Filter AGF - T - 30 - F25L Material: PTFE / Glass Retention: 25 micron with filter element F25L	502,00 €
41030056	Filter element F2-RA material: PTFE 2 µm package of 5 pcs.	198,00 €

Filter elements for AGF

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part-no.	type	unit price
41010010	Filter element S2 material: glass fibre 2 µm package of 5 pcs. (replacement for 4101001)	53,00 €
4101002	Filter element S2 material: glass fibre 2 µm package of 25 PCS.	141,00 €
41010150	Filter element 2 micron S 2 - KU package of 25 PCS	169,00 €
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 €
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 €
41030058	Filter element 0,1-RA material: Borosilicate microglass 0,1 µm package of 5 pcs.	145,00 €

<i>part-no.</i>	<i>type</i>	<i>unit price</i>
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3.3 Front panel filters

The article numbers of filters with imperial sized threads are marked with an "I" at the end.

41159991	Filter AGF - FE - 1 Material: PA 12, PC Retention: 2 micron with filter element FE - E1	59,00 €
41158991	Filter AGF-FE-1-T Material: PC/PTFE Retention: 2 micron with filter element FE-1-T	73,00 €
4115099	Filter AGF - FE - 2 Material: PVDF / SS 1.4571 / Alu Retention: 8 micron with filter element FE - E2	169,00 €
4115100	Filter	171,00 €
4115100I	AGF-FE-4 Material: PA 12, PC Retention: 2 micron with filter element FE-4	
4115200	Filter	198,00 €
4115200I	AGF-FE-4-Vi/PTFE Material: PVDF/ PTFE/ Duran/ PA/ PTFE with filerelement FE-4	

Filter elements for FE - _

part-no.	type	unit price
41150010	Filter element FE-E1 material: glass fibre 2 µm package of 5 pcs. (replacement for 4115001)	130,00 €
41150090	Filter element FE-1-T material: PTFE 2 µm package of 5 pcs. (replacement for 4115009)	160,00 €
411509910	Filter element FE-E2 material: microglass fibre 8 µm package of 5 pcs. (replacement for 41150991)	126,00 €
41151050	Filter element FE-4 material: PTFE 2 µm package of 8 pieces (replacement for 4115105)	228,00 €

3.4 Build-up - Filter

4115300	Panel-filter AGF-FA-5 material: PVDF/PTFE/Duran/Viton/PA with filter element FE-E4	321,00 €
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Filter elements for FA

41151050	Filter element FE-4 material: PTFE 2 µm package of 8 pieces (replacement for 4115105)	228,00 €
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part-no.	type	unit price
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3.5 Sample gas filter stainless steel

3.5.1 Sample gas filter AGF - VA - 23 with viton seal

4142999	Filter AGF - VA - 23 - V, without filter element Material: 1.4571 / Viton / PVDF	483,00 €
4142699	Sample gas filter AGF-VA-23-V-F2/25 without filter element material stainless steel/Viton with adapter for F2/F25 element	518,00 €

Filter elements for AGF - VA - 23 with viton seal

41030050	Filter element F2 material: PTFE 2 µm package of 5 pcs.	174,00 €
41020130	Filter element F25 material: PTFE 25 µm package of 5 pcs. (replacement for 4102013)	153,00 €
4103003	Filter element 25 micron DRG 25 SO - V	474,00 €
4103004	Filter element 60 micron DRG 60 SO - V	474,00 €
7856966	Filter element 25 micron 852149 DRG 25 VA - V	254,00 €
7856974	Filter element 60 micron 852149 DRG 60 VA - V	254,00 €
7856982	Filter element 100 micron 852149 DRG 100 VA - V	254,00 €

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part-no.	type	unit price
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3.5.2 Sample gas filter AGF - VA - 23 with perfluorelastomer seal

4145999	Filter AGF - VA - 23 - K, without filter element Material: 1.4571/HiFluor(FKM)	765,00 €
4145699	AGF-VA-23-P-F2/F25 without filter element material:1.4571 / HiFluor(FKM) with adapter F2/F25 filter element	789,00 €

Filter elements for AGF - VA - 23 with perfluorelastomer seal

4103008	Filter element 25 micron DRG 25 SO - P	484,00 €
4103009	Filter element 60 micron DRG 60 SO - P	484,00 €

3.5.3 Sample gas filter AGF - VA - 350

4135999	Filter AGF-VA-350-T without filter element without bracket without plug NPT 1/4 material: SS316L/FEP	251,00 €
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 €

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part-no.	type	unit price
Filter elements for AGF - VA - 350		
4135G002	Glass fibre filter element retention rate 2µm binder epoxy resin øi=12,7mm, L=57mm, max. 150°C	28,00 €
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 €

3.6 Self-cleaning sample gas filters

4109999	Self cleaning sample gas filter BF 2 - S - 0,5 Retention: 0,5 micron Material: stainless steel 1.4571 PTFE/Viton	1.104,00 €
4108999	Self cleaning sample gas filter BF 2 - S - 5 Retention: 5 micron Material: stainless steel 1.4571 PTFE Viton	1.104,00 €

Filter elements for self-cleaning filters

4109001	Filter element for BF2-S-0,5 0,5M-29-100 length 98mm	320,00 €
4108001	Filter element for BF 2 - S - 5 5 M - 29 - 100, package of 1 PCS.	320,00 €

part-no.	type	unit price
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3.7 Coalescing filter

The article numbers of filters with NPT sized threads are marked with an "I" at the end.

4150699	Coalescing filter	402,00 €
4150699I	K - AGF -PV -30 A Material: PVDF / Glass / Viton with coalescence element	
4151899	coalescing filter	381,00 €
4151899I	K-AGF-PV-30 mat.:glass, PVDF, Viton with coalescence element closed filter bowl	
4142799	Coalescer filter K - AGF - VA - 23 - V material SS 1.4571 / PVDF / Viton with coalescence element	589,00 €
4142899	K-AGF-VA-23-P with coalescence element mat. 1.4571/HiFluor(FKM)/PVDF	773,00 €
4135099	Coalescing filter K-AGF-VA-350-T without filter element without bracket without plug NPT 1/4 material: SS316L/FEP	259,00 €
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 €

Filter elements for coalescing filters

4932001	Coalescence element for K-AGF-VA-23 material : Borsilicate fibre, PVDF	70,00 €
4932002	Coalescence element for K-AGF-PV-30 / K-AGF-VA-350 material: Borosilicat fibre	70,00 €

<i>part-no.</i>	<i>type</i>	<i>unit price</i>
3.8 Water stop filters*		
65709753	Water-stop-filter connections DN4/6 material: PP/PVDF/PTFE	126,00 €
65709754	Water stop filter stainless steel gas inlet 1/4" NPT gas outlet 1/8" NPT bypass 1/4" NPT material: 1.4571/FKM/PTFE	497,00 €
6570976	Water-stop-filter connections ø6 material: PP/PTFE	81,00 €
6570977	Water-stop-filter connections DN1/6/1/4 material: PP/PVDF/PTFE	126,00 €

Filter elements for coalescing filters

65709755	Replacement filter membrane MEM2082 & MEM2083 for filter type. WT20.82E & WT20.83E XL can be used in hazardous areas	197,00 €
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* the prices stated in chapter 3.8 are non-discountable!

part-no.	type	unit price
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3.9 Ab - / Adsorption filters

The article numbers of filters with imperial sized threads are marked with an "I" at the end.

4152099	ADF - PV - 30 - L	303,00 €
4152099I	Material : PVDF / Glass without filling	

3.9.1 Filter housing without absorber material (for different filter materials)

4157599	Adsorption filter ADF-PV-170 For different filter materials Length of the glass tube: 170 mm Without filling	350,00 €
4157699	Adsorption filter ADF-PV-300 For different filter materials Length of the glass tube: 300 mm Without filling	341,00 €
4157799	Adsorption filter ADF-T-170-A For different filter materials Length of the glass tube: 170 mm Connectors: PTFE With condensate outlet Without filling	362,00 €
4157899	Adsorption filter ADF-T-300-A For different filter materials Length of the glass tube: 300 mm Connectors: PTFE With condensate outlet Without filling	353,00 €
46222167	filter wool package 100 g	31,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
3.9.2 Absorptions filters with absorber material (Filter housing with absorber material)		
4157599KG	Adsorbtion filter ADF-PV-170-KG Filled with NH3 adsorption material Length of the glass tube: 170 mm	440,00 €
4157699KG	Adsorbtion filter ADF-PV-300-KG Filled with NH3 adsorption material Length of the glass tube: 300 mm	488,00 €
4157799KG	Adsorbtion filter ADF-T-170-A-KG Filled with NH3 adsorption material Length of the glass tube: 170 mm Connectors PTFE Condensate outlet	427,00 €
4157899KG	Adsorbtion filter ADF-T-300-A-KG Filled with NH3 adsorption material Length of the glass tube: 300 mm Connectors PTFE Condensate outlet	471,00 €
46222167	filter wool package 100 g	31,00 €
415729912	Re-filling pack 50 g granulat material A 50 g pellets material B	146,00 €

part-no.	type	unit price
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3.10 Ambient air filters

The article numbers of filters with imperial sized threads are marked with an "I" at the end.

4152199	RAF - PV - 30 - S2	166,00 €
4152199I	Material: PVDF / Glass Retention: 2 micron with filter element S2	
4152299	RAF - PV - 30 - F25	221,00 €
4152299I	Material: PVDF / Glass Retention : 25 micron with filter element F25	

Filter elements for ambient air filters

41010010	Filter element S2 material: glass fibre 2 µm package of 5 pcs. (replacement for 4101001)	53,00 €
4101002	Filter element S2 material: glass fibre 2 µm package of 25 PCS.	141,00 €
41020130	Filter element F25 material: PTFE 25 µm package of 5 pcs. (replacement for 4102013)	153,00 €

part-no.	type	unit price
3.11 Heated sample gas filters		
41222294	heated sample gas filter AHF-22-S, self-regulating heater unit 115-230V 50/60Hz 400W	1.560,00 €
41222295	heated sample gas filter AHF-22-S-K, self-regulating calibration gas port heater unit 115-230V 50/60Hz 400W	1.730,00 €
41222296	heated sample gas filter AHF-22-115-R, regulated, with PT100 heater unit 115V 50/60Hz 425W without temperature controller	1.549,00 €
41222299	heated sample gas filter AHF-22-230-R, regulated, with PT100 heater unit 230V 50/60Hz 440W without temperature controller	1.549,00 €
41222297	heated sample gas filter AHF-22-115-R-K, regulated, with PT100 and calibration gas port heater unit 115V 50/60Hz 425W without temperature controller	1.718,00 €
41222298	heated sample gas filter AHF-22-230-R-K, regulated, with PT100 and calibration gas port heater unit 230V 50/60Hz 440W without temperature controller	1.718,00 €
46222092	Temperature controller BRS 230V, high/ low alarm contact 230V AC , max. 5 A AC without CSA-certification	845,00 €
46222192	Temperature controller BRS high/ low alarm contact 115V AC , max. 3 A AC without CSA-certification	845,00 €

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Gas Analysis



<i>part-no.</i>	<i>type</i>	<i>unit price</i>
Filter elements for AHF - 22		
46222010	Sintered stainless steel element with O-rings, material: viton retention rate 5µm pressure drop 35 mbar at Q=500NI/h	173,00 €
46222026	Sintered ceramic filter element incl. O-rings, material: viton retention rate: 3µm pressure drop <1 mbar at Q=500NI/h	159,00 €
46222163	closing handle with filter tube and filter wool	276,00 €
46222167	filter wool package 100 g	31,00 €
46222012	Set of O-rings for filter element and probe handle material: viton O-Ring grease included	27,00 €

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Gas Analysis



4 Sample gas coolers

4.1 Thermoelectric sample gas cooler

4.1.1 TC-MINI

Part.no.	4	4	9	6	1	1	1	0	4												Price	Total					
																					Gas cooler models (with 1 heat exchanger)						
1	TC MINI 6111: Standard ambient temperature 40 °C															884,00 €											
2	TC MINI 6112: Standard ambient temperature 50 °C															968,00 €											
																					Certifications						
0	Standard applications – CE															0,00 €											
																					Supply voltage						
4	24 V DC															0,00 €											
																					Heat exchanger¹⁾						
1	1	0	Stainless steel, MTS, metric													266,00 €											
1	1	5	Stainless steel, MTS-I, US													266,00 €											
1	2	0	Duran glass, MTG, metric													423,00 €											
1	2	5	Duran glass, MTG, US													423,00 €											
1	3	0	PVDF, MTV, metric													268,00 €											
1	3	5	PVDF, MTV-I, US													268,00 €											
1	6	0	Stainless steel, angle connector, MTS-WS, metric													299,00 €											
1	6	5	Stainless steel, angle connector, MTS-I-WS, US													299,00 €											
																					Pumps						
0	0	without pumps													0,00 €												
																					Moisture detector / filter						
0	0	without moisture detector / filter													0,00 €												
0	1	with moisture detector with block													341,00 €												
1	0	with filter													295,00 €												
1	1	with moisture detector inside filter													470,00 €												
																					Signal outputs						
1	Analog output, 4..20 mA, incl. status output															0,00 €											
2	Modbus RTU digital output, incl. status output															41,00 €											
Part.no.	4	4	9	6	1	1	1	0	4												Catalogue Price						

¹⁾ Filter tubing, metric or US, respectively

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Gas Analysis



4.1.2 TC-Standard with 1 heat exchanger

Part.no.	4	4	9	6	2	1	1					0				0	0	Price	Total			
																		Gas cooler models (with 1 heat exchanger)				
																		1	TC-Standard 6111: Ambient temperature 40 °C	1.500,00 €		
																		2	TC-Standard 6112: Ambient temperature 50 °C	1.731,00 €		
																			Certifications			
																		0	Standard unit, no special certification	0,00 €		
																		1	General purpose - FM	38,00 €		
																			Supply voltage			
																		1	115 V AC, 50/60 Hz	0,00 €		
																		2	230 V AC, 50/60 Hz	0,00 €		
																		4	24 V DC ¹⁾	0,00 €		
																			Heat exchanger			
																		1	1	0	Stainless steel, PTS, metric	376,00 €
																		1	1	5	Stainless steel, PTS, US	376,00 €
																		1	2	0	Duran glass, PTG, metric	423,00 €
																		1	2	5	Duran glass, PTG, US	423,00 €
																		1	3	0	PVDF, PTV, metric	379,00 €
																		1	3	5	PVDF, PTV, US	379,00 €
																			Peristaltic Pumps¹⁾			
																		0	0		without peristaltic pump	0,00 €
																		1	0		CPsingle with hose nipple	280,00 €
																		3	0		CPsingle with screw connection	300,00 €
																			Moisture detector / filter			
																		0	0		without filter, without moisture detector	0,00 €
																		0	1		without filter, 1 moisture detector with adapter	307,00 €
																		1	0		1 filter, without moisture detector	288,00 €
																		1	1		1 filter with built-in moisture detector	490,00 €
																			Signal outputs			
																		0	0		alarm output only	0,00 €
																		1	0		Analog output, 4..20 mA, incl. status output	48,00 €
																		2	0		Modbus RTU digital output, incl. status output	255,00 €
																			Delta-T Control			
																		0	0		without Delta-T Control	0,00 €
																		1	0		Option, with Delta-T Control	48,00 €
Part.no.	4	4	9	6	2	1	1					0					0	0		Catalogue Price		

¹⁾ Peristaltic pumps not possible for 24V DC!

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Gas Analysis



4.1.3 TC-Standard with 2 heat exchangers

Part.no.	4	4	9	6	2	1	2						0			0	0		Price	Total
Gas cooler models (with 2 heat exchangers)																				
1																			1.550,00 €	
2																			1.778,00 €	
Certifications																				
0																			0,00 €	
1																			38,00 €	
Supply voltage																				
1																			0,00 €	
2																			0,00 €	
4																			0,00 €	
Heat exchanger																				
2	1	0																	527,00 €	
2	1	5																	527,00 €	
2	2	0																	842,00 €	
2	2	5																	842,00 €	
2	3	0																	532,00 €	
2	3	5																	532,00 €	
Peristaltic Pumps¹⁾																				
0	0	0																	0,00 €	
2	0	0																	359,00 €	
4	0	0																	395,00 €	
Moisture detector / filter																				
0	0	0																	0,00 €	
0	1	0																	307,00 €	
0	2	0																	610,00 €	
1	0	0																	288,00 €	
1	1	0																	490,00 €	
2	0	0																	575,00 €	
2	1	0																	777,00 €	
2	2	0																	976,00 €	
Signal outputs																				
0	0	0																	0,00 €	
1	0	0																	48,00 €	
2	0	0																	255,00 €	
Delta-T Control																				
0	0	0																	0,00 €	
1	0	0																	48,00 €	
Catalogue Price																				
Part.no.	4	4	9	6	2	1	2						0			0	0			

¹⁾ Peristaltic pumps not possible for 24V DC!

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Gas Analysis



4.1.4 TC-MIDI with one gas path inside the heat exchanger

Part.no.	4	4	9	6	3	1	1									0	0	Price	Total
Gas cooler models																			
1																		1.882,00 €	
2																		2.153,00 €	
Certifications																			
0																		0,00 €	
1																		38,00 €	
Supply voltage																			
1																		0,00 €	
2																		0,00 €	
Heat exchanger																			
1	1	0																478,00 €	
1	1	5																478,00 €	
1	2	0																496,00 €	
1	2	5																496,00 €	
1	3	0																552,00 €	
1	3	5																552,00 €	
Peristaltic Pumps ²⁾																			
0																		0,00 €	
1																		255,00 €	
3																		273,00 €	
Sample gas pumps ¹⁾																			
0																		0,00 €	
1																		454,00 €	
2																		590,00 €	
6																		454,00 €	
7																		590,00 €	
Moisture detector ²⁾ / filter																			
0	0																	0,00 €	
0	1																	307,00 €	
1	0																	288,00 €	
1	1																	490,00 €	
Signal outputs																			
0	0																	0,00 €	
1	0																	48,00 €	
2	0																	255,00 €	
Delta-T Control																			
0	0																	0,00 €	
1	0																	48,00 €	
Part.no.	4	4	9	6	3	1	1									0	0	Catalogue Price	

¹⁾ Factory installed tubing for suction operation.

²⁾ If mounted, the maximum ambient temperature is limited to 50°C.

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Gas Analysis



4.1.5 TC-MIDI with two gas paths inside the heat exchanger

Part.no.	4	4	9	6	3	1	1										0	0		Price	Total	
Gas cooler models (with two heat exchangers)																						
1																				TC-MIDI 6121: Ambient temperature 40 °C	1.882,00 €	
2																				TC-MIDI 6122: Ambient temperature 60 °C	2.153,00 €	
Certifications																						
0																				Standard unit, no special certification	0,00 €	
1																				General purpose - FM	38,00 €	
Supply voltage																						
1																				115 V AC, 50/60 Hz	0,00 €	
2																				230 V AC, 50/60 Hz	0,00 €	
Heat exchanger																						
2	6	0																		Stainless steel, DTS, metric	788,00 €	
2	6	5																		Stainless steel, DTS, US fitting	788,00 €	
2	6	1																		Stainless steel, DTS 6, metric ¹⁾	788,00 €	
2	6	6																		Stainless steel, DTS 6-I, US fitting ¹⁾	788,00 €	
2	7	0																		Duran glass, DTG, metric	897,00 €	
2	7	5																		Duran glass, DTG, US fitting	897,00 €	
2	8	0																		PVDF, DTV, metric ¹⁾	899,00 €	
2	8	5																		PVDF, DTV, US fitting ¹⁾	899,00 €	
Peristaltic Pumps ⁴⁾																						
0																				without peristaltic pump	0,00 €	
2																				CPdouble with hose nipple, angled	332,00 €	
4																				CPdouble with screw connector, metric/US fitting	370,00 €	
Sample gas pumps ³⁾																						
0																				without sample gas pump	0,00 €	
1																				Sample gas pump P1 for 1 gas path, PVDF	454,00 €	
2																				Sample gas pump P1 for 1 gas path, PVDF with bypass valve	590,00 €	
6																				Sample gas pump P1 for 1 gas path, PVDF, side ²⁾	454,00 €	
7																				Sample gas pump P1 for 1 gas path, PVDF with bypass valve, side ²⁾	590,00 €	
Moisture detector ⁴⁾ / filter																						
0	0	0																		without filter, without moisture detector	0,00 €	
0	0	1																		without filter, 1 moisture detector with adapter	307,00 €	
0	0	2																		without filter, 2 moisture detectors with adapter	610,00 €	
1	0	0																		1 filter, without moisture detector	288,00 €	
1	1	0																		1 filter with built-in moisture detector	490,00 €	
2	0	0																		2 filters, without moisture detector ²⁾	575,00 €	
2	1	1																		2 filters, 1 moisture detector ²⁾	777,00 €	
2	2	2																		2 filters, 2 moisture detectors ²⁾	976,00 €	
Signal outputs																						
0	0	0																		alarm output only	0,00 €	
1	0	0																		Analog output, 4...20 mA, incl. status output	48,00 €	
2	0	0																		Modbus RTU digital output, incl. status output	255,00 €	
Delta-T Control																						
0	0	0																		without Delta-T Control	0,00 €	
1	0	0																		Option, with Delta-T Control	48,00 €	
Part.no.	4	4	9	6	3	1	1										0	0		Catalogue Price		

¹⁾ Condensate outlets only suitable when connecting peristaltic pumps.

²⁾ Installing the sample gas pump P1 on the side only allows 1 filter.

³⁾ Factory installed tubing for suction operation.

⁴⁾ If mounted, the maximum ambient temperature is limited to 50°C.

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4.1.6 TC-Double

Part.no.	4	4	9	6	6	1	1											0	0	0	Price	Total			
																					Gas cooler type				
1																				TC-Double 6111: Ambient temperature 40 °C	2.133,00 €				
2																				TC-Double 6112: Ambient temperature 60 °C	2.271,00 €				
																					Certifications				
0																				Standard unit, no special certification	0,00 €				
1																				General purpose - FM	30,00 €				
																					Supply voltage				
1																				115 V AC, 50/60 Hz	0,00 €				
2																				230 V AC, 50/60 Hz	0,00 €				
																					Heat exchanger				
1	1	0																			Stainless steel, PTS, metric	747,00 €			
1	1	5																			Stainless steel, PTS-I, US fittings	747,00 €			
1	2	0																			Duran glass, PTG, metric	842,00 €			
1	2	5																			Duran glass, PTG, US fittings	842,00 €			
1	3	0																			PVDF, PTV, metric	755,00 €			
1	3	5																			PVDF, PTV-I, US fittings	755,00 €			
																					Peristaltic pumps				
0																				without peristaltic pump	0,00 €				
2																				CPdouble with hose nipple, angled	359,00 €				
4																				CPdouble with screw connection ²⁾	395,00 €				
																					Sample Gas Pumps¹⁾				
0																				without sample gas pump	0,00 €				
1																				P1, PVDF	454,00 €				
2																				P1, with bypass valve	590,00 €				
																					Moisture detector / Filter²⁾				
0	0																				without filter, without moisture detector	0,00 €			
0	1																				without filter, 1 moisture detector with adapter	307,00 €			
1	0																				1 filter, without moisture detector	288,00 €			
1	1																				1 filter with built-in moisture detector	490,00 €			
																					Signal outputs				
0	0																				alarm output only	0,00 €			
1	0																				Analog output, 4..20 mA, incl. status output	48,00 €			
2	0																				Modbus RTU digital output, incl. status output	255,00 €			
Part.no.	4	4	9	6	3	1	1											0	0	0	Catalogue Price				

¹⁾ Factory installed tubing for suction operation.
²⁾ Metric or US connection, depending on heat exchanger.

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part-no.	type	unit price
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4.1.7 TC-Standard OEM

Part. no.	4	4	9	6	2	9	2	0		0	Product characteristic
											Number of heat exchangers
							1				Gas cooler with 1 heat exchanger
							2				Gas cooler with 2 heat exchangers
											Gas cooler type
							2	0			TC-Standard-OEM: Ambient temperature 50°C
											Supply voltage
							1				115 V AC, 50/60 Hz (transformer)
							2				230 V AC, 50/60 Hz (transformer)
							4				24 V DC
							5				115 V AC, 50/60 Hz (switching power supply)
							6				230 V AC, 50/60 Hz (switching power supply)
											DeltaT control
							0	0			without DeltaT control
							1	0			DeltaT control option
Part. no.	4	4	9	6	2	9	2	0		0	

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
449629120100	TC-Standard OEM 6912 115V 50/60Hz T-ambient 50°C for one heat exchanger	1.480,00 €
449629120110	TC-Standard OEM 6912 115V 50/60Hz T-ambient 50°C for one heat exchanger with delta T control option	1.525,00 €
449629120200	TC-Standard OEM 6912 230V 50/60Hz T-ambient 50°C for one heat exchanger	1.480,00 €
449629120210	TC-Standard OEM 6912 230V 50/60Hz T-ambient 50°C for one heat exchanger with delta T control option	1.525,00 €
449629120400	TC-Standard OEM 6912 standard unit 24V DC T-ambient 50°C for one heat exchanger	1.385,00 €
449629120410	TC-Standard OEM 6912 standard unit 24V DC T-ambient 50°C for one heat exchanger with delta T control option	1.432,00 €
449629120500	TC-Standard OEM 6912 switch-mode power supply 115V 50/60Hz T-ambient 50°C for one heat exchanger	1.489,00 €
449629120510	TC-Standard OEM 6912 switch-mode power supply 115V 50/60Hz T-ambient 50°C for one heat exchanger with delta T control option	1.533,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
449629120600	TC-Standard OEM 6912 switch-mode power supply 230V 50/60Hz T-ambient 50°C for one heat exchanger	1.489,00 €
449629120610	TC-Standard OEM 6912 switch-mode power supply 230V 50/60Hz T-ambient 50°C for one heat exchanger with delta T-control option	1.533,00 €
449629220100	TC-Standard OEM 6922 115V 50/60Hz T-ambient 50°C for two heat exchanger	1.526,00 €
449629220110	TC-Standard OEM 6922 115V 50/60Hz T-ambient 50°C for two heat exchanger with Delta T-control	1.573,00 €
449629220200	TC-Standard OEM 6922 230V 50/60Hz T-ambient 50°C for two heat exchanger	1.526,00 €
449629220210	TC-Standard OEM 6922 230V 50/60Hz T-ambient 50°C for two heat exchanger with Delta T-control	1.573,00 €
449629220400	TC-Standard OEM 6922 standard unit 24V DC T-ambient 50°C for two heat exchanger	1.433,00 €
449629220410	TC-Standard OEM 6922 standard unit 24V DC T-ambient 50°C for two heat exchanger with Delta T-control	1.477,00 €
449629220500	TC-Standard OEM 6922 switch-mode power supply 115V 50/60Hz T-ambient 50°C for two heat exchanger	1.534,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
449629220510	TC-Standard OEM 6922 switch-mode power supply 115V 50/60Hz T-ambient 50°C for two heat exchanger with Delta T-control	1.580,00 €
449629220600	TC-Standard OEM 6922 switch-mode power supply 230V 50/60Hz T-ambient 50°C for two heat exchanger	1.534,00 €
449629220610	TC-Standard OEM 6922 switch-mode power supply 230V 50/60Hz T-ambient 50°C for two heat exchanger with Delta T-control	1.580,00 €

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4.1.8 TC-KIT

Part. no	4	4	9	6	2	3		0						Price	Total	
					1									Gas cooler with 1 heat exchanger	1.191,00 €	
					2									Gas cooler with 2 heat exchangers	1.299,00 €	
														Gas cooler type		
					2	0								TC-Kit: Ambient temperature 55°C	0,00 €	
														Supply voltage		
						1								115 V AC, 50/60 Hz (switching power supply)	298,00 €	
						2								230 V AV, 50/60 Hz (switching power supply)	298,00 €	
						4								24 V DC	0,00 €	
														Options		
						0	0							without option	0,00 €	
						0	1							Controller for heated line	152,00 €	
						1	0							Extension module	347,00 €	
						1	1							Controller and Extension module	497,00 €	
Part. no	4	4	9	6	2	3		0					0	Catalogue Price		

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4.2 Sample gas coolers

4.2.1 RC 1.1

Part no.	4	5	9	6	2	1	1	0							0	0	0	0	0	0	Price	Total	
Power supply																							
1																					115 V, 60Hz	1.965,00 €	
2																					230 V, 50Hz/60Hz	1.965,00 €	
Heat exchanger																							
1	1	1	0																		1 gas path/ Single heat exchanger, stainless steel/ (TS), metric	478,00 €	
1	1	1	5																		1 gas path/ Single heat exchanger, stainless steel/ (TS-I), US	478,00 €	
1	2	0																			1 gas path/ Single heat exchanger, Duran glass/ (TG), metric	496,00 €	
1	2	5																			1 gas path/ Single heat exchanger, Duran glass/ (TG), US	496,00 €	
1	3	0																			1 gas path/ Single heat exchanger, PVDF/ (TV), metric	552,00 €	
1	3	5																			1 gas path/ Single heat exchanger, PVDF/ (TV-I), US	552,00 €	
2	6	0																			2 gas paths/ double heat exchanger, stainless steel/ (DTS 10 mm), metric	788,00 €	
2	6	1																			2 gas paths/ double heat exchanger, stainless steel/ (DTS-6) ¹⁾ , metric	788,00 €	
2	6	5																			2 gas paths/ double heat exchanger, stainless steel/ (DTS-I), US	788,00 €	
2	6	6																			2 gas paths/ double heat exchanger, stainless steel/ (DTS-6-I) ¹⁾ , US	788,00 €	
2	7	0																			2 gas paths/ double heat exchanger, Duran glass/ (DTG), metric	897,00 €	
2	7	5																			2 gas paths/ double heat exchanger, Duran glass/ (DTG-I), US	897,00 €	
2	8	0																			2 gas paths/ double heat exchanger, PVDF/ (DTV) ¹⁾ , metric	899,00 €	
2	8	5																			2 gas paths/ double heat exchanger, PVDF/ (DTV-I) ¹⁾ , US	899,00 €	
Peristaltic pumps ²⁾																							
0	0																				Without peristaltic pump	0,00 €	
1	0																				CPsingle with hose nipple, angled ³⁾	255,00 €	
2	0																				CPdouble with hose nipple, angled ³⁾	332,00 €	
3	0																				CPsingle with screw connection metric/US ³⁾	273,00 €	
4	0																				CPdouble with screw connection metric/US ³⁾	370,00 €	
Moisture detector / filter																							
0	0																				without filter, without moisture detector	0,00 €	
0	1																				without filter, 1 moisture detector with adapter	307,00 €	
0	2																				without filter, 2 moisture detectors with adapter	610,00 €	
1	0																				1 filter, without moisture detector	288,00 €	
1	1																				1 filter with built-in moisture detector	490,00 €	
2	0																				2 filter, with built-in moisture detector	575,00 €	
2	1																				2 filter, 1 moisture detector	777,00 €	
2	2																				2 filter, 2 moisture detectors	976,00 €	
Signal outputs																							
0	0																				alarm output only	0,00 €	
1	0																				Analog output, 4..20 mA, incl. status output	48,00 €	
2	0																				Modbus RTU digital output, incl. status output	255,00 €	
Part no.	4	5	9	6	2	1	1	0							0	0	0	0	0		Catalogue Price:		

¹⁾ Condensate outlets only suitable when connecting peristaltic pumps.

²⁾ Peristaltic pumps for separate installation are also available, see datasheet 450020.

³⁾ Each gas path is equipped with a peristaltic pump. The power supply of the peristaltic pump is the same as the basic cooler unit.

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4.2.2 EGK 4S

Part no.	4	5	7					0	0	EGK 4S	Price	Total
Type												
				0						Wall mount	3.633,00 €	
				1						19"- rack mount	3.633,00 €	
Power Supply												
				1						115V metric fittings	0,00 €	
				2						230V metric fittings	0,00 €	
				3						115V US fittings	0,00 €	
				4						230V US fittings	0,00 €	
*Gas Paths												
				0						without heat exchanger	0,00 €	
				1						1 gas path	1 x Unit price heat exchanger, See below	
				2						2 gas paths	2 x Unit price heat exchanger, see below	
				3						3 gas paths	3 x Unit price heat exchanger, see below	
				4						4 gas paths	4 x Unit price heat exchanger, see below	
Material Heat Exchanger/ Version												
				0	0					Without heat exchanger	0,00 €	
				1	0					Single heat exchanger stainless steel / (TS or TS-I)	478,00 €	
				2	0					Single heat exchanger glass / (TG)	496,00 €	
				3	0					Single heat exchanger PVDF/ (TV or TV-I)	552,00 €	
Condensate Discharge ¹⁾												
								0		without condensate discharge	0,00 €	
Accessories												
										0 without accessories	0,00 €	
										1 with mounting brackets	55,00 €	
										2 with feet	35,00 €	
										3 with mounting brackets and feet	88,00 €	
										4 with handles	55,00 €	
										5 with mounting brackets and handles	108,00 €	
										6 with feet and handles	88,00 €	
										7 with mounting brackets, feet and handles	141,00 €	
Part no.	4	5	7					0	0	Catalogue Price		

¹⁾ Peristaltic pumps must be mounted separately. They can also be installed with a mounting bracket (Part no.: 4570008) with up to 4 peristaltic pumps. Condensate drains are not assembled and will be supplied loose in the delivery. Please select the parts and prices from the attached list as from chapter 0.

Please note: Each gas path should be equipped with a peristaltic pump or an automatic condensate drain. The power supply of the peristaltic pump is the same as the basic cooler unit.

***Note:** For more than one gas path, it is necessary to multiply the heat exchanger price by the number of gas paths.

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Gas Analysis



4.2.3 EGK 10

Part no.	4	5	6	9			0	0	0		Price	Total	
Power Supply													
1											EGK 10 115V	3.968,00 €	
2											EGK 10 230V	3.968,00 €	
Gas Paths													
0	0	0									without heat exchanger	0,00 €	
1	1	0									single heat exchanger / stainless steel / TS10 G 3/8"	928,00 €	
1	1	1									single heat exchanger / stainless steel / TS10 NPT 3/8"	928,00 €	
1	2	1									single / inner coated with glass/ TS10 GB NPT 3/8"	1.504,00 €	
Condensate Discharge ¹⁾													
							0				without condensate discharge	0,00 €	
Mounting Accessories													
0											without mounting accessories	0,00 €	
1											with mounting brackets	55,00 €	
2											with feet	35,00 €	
3											with mounting brackets and feet	88,00 €	
4											with handles	55,00 €	
5											with mounting brackets and handles	108,00 €	
6											with feet and handles	88,00 €	
7											with mounting brackets, feet and handles	141,00 €	
Catalogue Price													

1) Direct mounting of peristaltic pumps is not possible. The pumps must be mounted separately:
P/n: 44921120114

Condensate drains are not assembled and will be supplied loosely to the delivery.
Please select the parts and prices from the attached list as from chapter 4.9.

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Gas Analysis



4.2.4 EGK 2-19 with one gas path

Part no.	4	5	2							0	EGK 2-19	Price	Total
Housing													
										0	Housing for wall mounting	0,00 €	
										1	Housing for 19" cabinet	0,00 €	
Type/ Power Supply													
										1	115V metric fittings	2.788,00 €	
										2	230V metric fittings	2.788,00 €	
										3	115V US fittings	2.788,00 €	
										4	230V US fittings	2.788,00 €	
1 Heat Exchanger / Material / Version													
										0	0	Without heat exchanger	0,00 €
										1	1	Single path heat exchanger / stainless steel / (PTS and PTS-I)	376,00 €
										1	2	Single path heat exchanger / glass / (PTG)	423,00 €
										1	3	Single path heat exchanger / PVDF / (PTV and PTV-I)	379,00 €
Condensate Discharge													
										0		without condensate discharge	0,00 €
										1		1 peristaltic pump CPsingle with hose connection 90° angle ¹⁾	303,00 €
										3		1 peristaltic pump CPsingle with hose straight connection ¹⁾	303,00 €
Filter													
										0		without filter	0,00 €
										1		1 filter mounted	319,00 €
Moisture Detector ²⁾													
										0		without moisture detector	0,00 €
										1		1 moisture detector, mounted	368,00 €
Option ^{2) 3)}													
										0		No options	0,00 €
										1		With 4 - 20 mA analogue temperature output	137,00 €
Part no.	4	5	2							0	Catalogue Price		

- 1) Each gas path is equipped with a peristaltic pump. The power supply of the pump has the same as for the cooler itself.
- 2) Option "moisture detector" includes option "4 - 20 mA analogue output".
- 3) Only selectable for models without moisture detector.

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Gas Analysis



4.2.5 EGK 2-19 with two gas paths

Part no.	4	5	2							0	EGK 2-19	Price	Total
Housing													
0											Housing for wall mounting	0,00 €	
1											Housing for 19" cabinet	0,00 €	
Type/ Power Supply													
1											115V metric fittings	2.788,00 €	
2											230V metric fittings	2.788,00 €	
3											115V US fittings	2.788,00 €	
4											230V US fittings	2.788,00 €	
2 Heat Exchanger / Material / Version													
0	0										Without heat exchanger	0,00 €	
2	1										2 Single path heat exchanger / stainless steel / (PTS and PTS-I)	747,00 €	
2	2										2 Single path heat exchanger / glass / (PTG)	842,00 €	
2	3										2 Single path heat exchanger / PVDF / (PTV and PTV-I)	755,00 €	
Condensate Discharge													
0											without condensate discharge	0,00 €	
2											2 peristaltic pumps CPsingle with hose connection 90° angle ¹⁾	602,00 €	
4											2 peristaltic pumps CPsingle with straight hose connection ¹⁾	602,00 €	
Filter													
0											without filter	0,00 €	
1											1 filter mounted	319,00 €	
2											2 filter mounted	634,00 €	
Moisture Detector ²⁾													
0											without moisture detector	0,00 €	
1											1 moisture detector, mounted	368,00 €	
2											2 moisture detector, mounted	602,00 €	
Option ²⁾³⁾													
0											No options	0,00 €	
1											With 4 - 20 mA analogue temperature output	137,00 €	
Part no.	4	5	2							0	Catalogue Price		

- 1) Each gas path is equipped with a peristaltic pump. The power supply of the pump has the same as for the cooler itself.
- 2) Option "moisture detector" includes option "4 - 20 mA analogue output".
- 3) Only selectable for models without moisture detector.

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Gas Analysis



4.3 Coolers for hazardous areas

4.3.1 TC-Standard X2; with one heat exchanger

Part no.	4	4	9	6	2	1	1	2	1	0	0	0	Price	Total	
Gas cooler models (with 1 heat exchanger)															
1													TC-Standard 6111 X2: Ambient temperature 40 °C	1.500,00 €	
2													TC-Standard 6112 X2: Ambient temperature 50 °C	1.731,00 €	
Certifications															
2													for explosive areas	1.085,00 €	
Supply voltage															
1													115 VAC, 50/60 Hz	0,00 €	
2													230 V AC, 50/60 Hz	0,00 €	
4													24 VDC	0,00 €	
Heat exchanger															
1	1	0											Stainless steel, PTS, metric	376,00 €	
1	1	5											Stainless steel, PTS-I, US fittings	376,00 €	
1	2	0											Duran glass, PTG, metric	423,00 €	
1	2	5											Duran glass, PTG, US fittings	423,00 €	
1	3	0											PVDF, PTV, metric	379,00 €	
1	3	5											PVDF, PTV-I, US fittings	379,00 €	
Peristaltic Pumps															
0	0												without peristaltic pump	0,00 €	
1	0												CPsingle X2 with hose nipple, angled	408,00 €	
3	0												CPsingle X2 with screw connection	427,00 €	
Moisture detector / filter															
0	0												without filter, without moisture detector	0,00 €	
0	1												without filter, 1 moisture detector with adapter	307,00 €	
1	0												1 filter, without moisture detector	288,00 €	
1	1												1 filter with built-in moisture detector	490,00 €	
Status Outputs															
0	0												status output only	0,00 €	
1	0												Analog output option, add-on	48,00 €	
Delta T control															
0	0												without Delta T control	0,00 €	
1	0												Delta T control option	48,00 €	
Part no.	4	4	9	6	2	1	1	2	1	0	0	0	Catalogue Price:		

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Gas Analysis



4.3.2 TC-Standard X2; with two heat exchangers

Part no.	4	4	9	6	2	1	2	2	2	0	0	0	Price	Total
Gas cooler models (with 2 heat exchangers)														
1	TC-Standard 6121 X2: Ambient temperature 40 °C											1.550,00 €		
2	TC-Standard 6122 X2: Ambient temperature 50 °C											1.778,00 €		
Certifications														
2	for explosive areas											1.085,00 €		
Supply voltage														
1	115 VAC, 50/60 Hz											0,00 €		
2	230 VAC, 50/60 Hz											0,00 €		
4	24 VDC											0,00 €		
Heat exchanger														
2	1	0	Stainless steel, 2 MTS, metric										527,00 €	
2	1	5	Stainless steel, 2 MTS-I, US fittings										527,00 €	
2	2	0	Duran glass, 2 MTG, metric										842,00 €	
2	2	5	Duran glass, 2 MTG, US										842,00 €	
2	3	0	PVDF, 2 MTV, metric										532,00 €	
2	3	5	PVDF, 2 MTV-I, US fitting										532,00 €	
Peristaltic Pumps														
0	0	without peristaltic pump										0,00 €		
2	0	CPdouble X2 with hose nipple, angled										485,00 €		
4	0	CPdouble X2 with screw connection										524,00 €		
Moisture detector / filter														
0	0	without filter, without moisture detector										0,00 €		
0	1	without filter, 1 moisture detector with adapter										307,00 €		
0	2	without filter, 2 moisture detectors with adapter										610,00 €		
1	0	1 filter, without moisture detector										288,00 €		
1	1	1 filter with built-in moisture detector										490,00 €		
2	0	2 filters, without moisture detector										575,00 €		
2	1	2 filters, 1 moisture detector										777,00 €		
2	2	2 filters, 2 moisture detectors										976,00 €		
Status Outputs														
0	0	status output only										0,00 €		
1	0	Analog output option, add-on										48,00 €		
Delta T control														
0	0	without Delta T control										0,00 €		
1	0	Delta T control option										48,00 €		
Part no.	4	4	9	6	2	1	1	2	1	0	0	0	Catalogue Price:	

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Gas Analysis



4.3.3 TC-Midi X2; with one gas path inside the heat exchanger

Part no.	4	4	9	6	3	1	1	2	1							0	0	Price	Total
Gas cooler models																			
1																		1.882,00 €	
2																		2.153,00 €	
Certifications																			
2																		1.085,00 €	
Supply voltage																			
1																		0,00 €	
2																		0,00 €	
Heat exchanger																			
1	1	0																478,00 €	
1	1	5																478,00 €	
1	2	0																496,00 €	
1	2	5																496,00 €	
1	3	0																552,00 €	
1	3	5																552,00 €	
Peristaltic Pumps ²⁾																			
0																		0,00 €	
1																		382,00 €	
3																		399,00 €	
Sample Gas Pumps ¹⁾																			
0																		0,00 €	
1																		581,00 €	
2																		717,00 €	
6																		581,00 €	
7																		717,00 €	
Moisture detector ²⁾ / Filter																			
0	0																	0,00 €	
0	1																	307,00 €	
1	0																	288,00 €	
1	1																	490,00 €	
Status Outputs																			
0	0																	0,00 €	
1	0																	48,00 €	
Delta T control																			
0	0																	0,00 €	
1	0																	48,00 €	
Part no.	4	4	9	6	3	1	1	2	1									Catalogue Price:	

- 1) Factory installed tubing for suction operation.
- 2) When mounted the maximum ambient temperature is limited to 50 °C.

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Gas Analysis



4.3.4 TC-Midi X2; with two gas paths insides the heat exchanger

Part no.	4	4	9	6	3	1	1	2	2						0	0	0	Price	Total	
Gas cooler models																				
1																		TC-MIDI 6111 X2: Ambient temperature 40 °C	1.938,00 €	
2																		TC-MIDI 6112 X2: Ambient temperature 60 °C	2.216,00 €	
Certifications																				
2																		for explosive areas	1.085,00 €	
Supply voltage																				
1																		115 V AC, 50/60 Hz	0,00 €	
2																		230 V AC, 50/60 Hz	0,00 €	
Heat exchanger																				
2	6	0																Stainless steel, DTS, metric	788,00 €	
2	6	5																Stainless steel, DTS-I, US fitting	788,00 €	
2	6	1																Stainless steel, DTS 6, metric ¹⁾	788,00 €	
2	6	6																Stainless steel, DTS 6-I, US fitting ¹⁾	788,00 €	
2	7	0																Duran glass, DTG, metric	897,00 €	
2	7	5																Duran glass, DTG, US fitting	897,00 €	
2	8	0																PVDF, DTV, metric ¹⁾	899,00 €	
2	8	5																PVDF, DTV-I, US fitting ¹⁾	899,00 €	
Peristaltic Pumps ⁴⁾																				
0																		without peristaltic pump	0,00 €	
2																		CPdouble X2 with hose nipple, angled	459,00 €	
4																		CPdouble X2 with screw connection, metric/US fitting	497,00 €	
Sample Gas Pumps ³⁾																				
0																		without sample gas pump	0,00 €	
1																		P1.3, 1 gas path, PVDF, bottom mounted	717,00 €	
2																		P1.3, 1 gas path, with bypass valve, bottom mounted	581,00 €	
6																		P1.3, 1 gas path, PVDF, side mounted ²⁾	717,00 €	
7																		P1.3, 1 gas path, with bypass valve, side mounted ²⁾	581,00 €	
Moisture detector ⁴⁾ / Filter																				
0	0																	without filter, without moisture detector	0,00 €	
0	1																	without filter, 1 moisture detector with adapter	307,00 €	
0	2																	without filter, 2 moisture detectors with adapter	610,00 €	
1	0																	filter, without moisture detector	288,00 €	
1	1																	filter with built-in moisture detector	490,00 €	
2	0																	filters, without moisture detector ²⁾	575,00 €	
2	1																	filters, 1 moisture detector ²⁾	777,00 €	
2	2																	filters, 2 moisture detectors ²⁾	976,00 €	
Status Outputs																				
0	0																	status output only	0,00 €	
1	0																	Analog output option, add-on	48,00 €	
Delta T control																				
0	0																	without Delta T control	0,00 €	
1	0																	Delta T control option	48,00 €	
Part no.	4	4	9	6	3	1	1	2	2						0	0	0	Catalogue Price:		

- 1) Condensate outlets only suitable when connecting peristaltic pumps.
- 2) Side mounted sample gas pump P1.3 only allows 1 filter.
- 3) Factory installed tubing for suction operation.
- 4) When mounted, the maximum ambient temperature is limited to 50 °C.

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Gas Analysis



4.3.5 TC-Double X2

Part no.	4	4	9	6	6	1	1	2	1							0	0	0	Price	Total		
																			Gas cooler type			
1																			TC-Double 6111 X2: Ambient temperature 40 °C	2.133,00 €		
2																			TC-Double 6112 X2: Ambient temperature 60 °C	2.271,00 €		
																			Certifications			
2																			for explosive areas	1.085,00 €		
																			Supply voltage			
1																			115 V AC, 50/60 Hz	0,00 €		
2																			230 V AC, 50/60 Hz	0,00 €		
																			Heat exchanger			
1	1	0																	Stainless steel, PTS, metric	747,00 €		
1	1	5																	Stainless steel, PTS-I, US fittings	747,00 €		
1	2	0																	Duran glass, PTG, metric	842,00 €		
1	2	5																	Duran glass, PTG, US fittings	842,00 €		
1	3	0																	PVDF, PTV, metric	755,00 €		
1	3	5																	PVDF, PTV-I, US fittings	755,00 €		
																			Peristaltic Pumps¹⁾			
0																			without peristaltic pump	0,00 €		
2																			CPdouble X2 with hose nipple, angled	459,00 €		
4																			CPdouble X2 with screw connection ²⁾	497,00 €		
																			Sample Gas Pumps^{1) 3)}			
0																			without sample gas pump	0,00 €		
1																			P1.3, PVDF	581,00 €		
2																			P1.3, with bypass valve	717,00 €		
																			Moisture Detector / Filter ²⁾			
0	0																		without filter, without moisture detector	0,00 €		
0	1																		without filter, 1 moisture detector with adapter	307,00 €		
1	0																		filter, without moisture detector	288,00 €		
1	1																		filter with built-in moisture detector	490,00 €		
																			Status outputs			
0	0																		status output only	0,00 €		
1	0																		Analogue output option, add-on	48,00 €		
Part no.	4	4	9	6	6	1	1	2	1							0	0	0	Catalogue Price:			

- 1) Factory installed tubing for suction operation.
- 2) Metric or US connection, per heat exchanger.
- 3) Factory installed tubing for suction operation.

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4.3.6 EGK 1 Ex2, for Atex zone 2 and IECEx

Part no.	4	5	6	3	2	1	1					0	0	0		Price	Total	
						2										ATEX Zone 2	0,00 €	
						5										EAC Ex	0,00 €	
Power Supply																		
						1										115 V, 60 Hz	3.581,00 €	
						2										230 V, 50 Hz	3.581,00 €	
Heat exchanger																		
				1	1											1 gas path/ Single heat exchanger, stainless steel/ (TS), metric	478,00 €	
				1	1		5									1 gas path/ Single heat exchanger, stainless steel/ (TS-I), US	478,00 €	
				1	2											1 gas path/ Single heat exchanger, Duran glass/ (TG), metric	496,00 €	
				1	2		5									1 gas path/ Single heat exchanger, Duran glass/ (TG), US	496,00 €	
				1	3											1 gas path/ Single heat exchanger, PVDF/ (TV), metric	552,00 €	
				1	3		5									1 gas path/ Single heat exchanger, PVDF/ (TV-I), US	552,00 €	
				2	6											2 gas paths/ double heat exchanger, stainless steel/ (DTS 10 mm), metric	788,00 €	
				2	6		1									2 gas paths/ double heat exchanger, stainless steel/ (DTS-6) ¹⁾ , metric	788,00 €	
				2	6		5									2 gas paths/ double heat exchanger, stainless steel/ (DTS-I), US	788,00 €	
				2	6		6									2 gas paths/ double heat exchanger, stainless steel/ (DTS-6-I) ¹⁾ , US	788,00 €	
				2	7											2 gas paths/ double heat exchanger, Duran glass/ (DTG), metric	897,00 €	
				2	7		5									2 gas paths/ double heat exchanger, Duran glass/ (DTG-I), US	897,00 €	
				2	8											2 gas paths/ double heat exchanger, PVDF/ (DTV) ¹⁾ , metric	899,00 €	
				2	8		5									2 gas paths/ double heat exchanger, PVDF/ (DTV-I) ¹⁾ , US	899,00 €	
Peristaltic pumps ²⁾																		
								0								Without peristaltic pump	0,00 €	
								1								Peristaltic pump CPsingle with hose connection 90° angle ²⁾	789,00 €	
								2								2 peristaltic pumps CPsingle with hose connection 90° angle ²⁾	1.350,00 €	
								3								Peristaltic pump CPsingle with screw connection ²⁾	806,00 €	
								4								2 peristaltic pumps CPsingle with screw connection ²⁾	1.389,00 €	
Part no.	4	5	6	3	2	1	1					0	0	0		Catalogue Price		

- 1) Condensate outlets only suitable when connecting peristaltic pumps.
- 2) Each gas path is equipped with a peristaltic pump. The power supply of the peristaltic pump is the same as the basic cooler unit.

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4.3.7 EGK 2A Ex, for Atex Zone 1 (metric connections)

Part no.	4	5	9	0						1	Price	Total
											Voltage ¹⁾	
					1						EGK 2A Ex 115V	7.859,00 €
					2						EGK 2A Ex 230V	7.447,00 €
											Gas path/material/version	
		0	0	0							without heat exchanger	0,00 €
											1 gas path/material/version	
		1	1	0							1x single heat exchanger/stainless steel/TS	478,00 €
		1	2	0							1x single heat exchanger/glass/TG	496,00 €
		1	3	0							1x single heat exchanger/PVDF/TV	552,00 €
											2 gas paths/material/version	
		2	1	0							2x single heat exchanger/stainless steel/TS	951,00 €
		2	2	0							2x single heat exchanger/glass/TG	989,00 €
		2	3	0							2x single heat exchanger/PVDF/TV	1.102,00 €
		2	6	0							1x dual heat exchanger/stainless steel/DTS-6 mm	788,00 €
		2	7	0							1x dual heat exchanger/glass/DTG	897,00 €
		2	8	0							1x dual heat exchanger/PVDF/DTV ²⁾	899,00 €
											3 gas paths/material/version	
		3	1	0							1x single heat exchanger + 1x dual heat exchanger/stainless steel/TS+DTS (10 mm)	1.262,00 €
		3	2	0							1x single heat exchanger + 1x dual heat exchanger/glass/TG+DTG	1.389,00 €
		3	3	0							1x single heat exchanger + 1x dual heat exchanger/PVDF/TV+DTV 2)	1.450,00 €
											4 gas paths/material/version	
		4	6	0							2x dual heat exchanger/stainless steel/DTS (10 mm)	1.571,00 €
		4	7	0							2x dual heat exchanger/glass/DTG	1.790,00 €
		4	8	0							2x dual heat exchanger/PVDF/DTV ²⁾	1.796,00 €
											Condensate drain	
		0	0	0							without condensate drain	0,00 €
											1 gas path	
		1	1	1							1x peristaltic pump CPsingle with adapter ³⁾	1.796,00 €
		1	1	3							1x peristaltic pump CPsingle with screw connection ³⁾	1.835,00 €
		3	0	0							1x AK20 installed ³⁾	445,00 €
		4	0	0							1x 11 LD V38 installed	750,00 €
											2 gas paths	
		1	2	2							1x peristaltic pump CPdouble with adapter ³⁾	2.684,00 €
		1	2	4							1x peristaltic pump CPdouble with screw connection ³⁾	2.761,00 €
		3	0	0							2x AK20 installed ³⁾	889,00 €
		4	0	0							2x 11 LD V38 installed	1.499,00 €
											3 gas paths	
		1	3	2							1x peristaltic pump CPdouble + 1x peristaltic pump CPsingle with adapter ³⁾	4.239,00 €
		1	3	4							1x peristaltic pump CPdouble + 1x peristaltic pump CPsingle with screw connection ³⁾	4.355,00 €
		3	0	0							3x AK20 installed ³⁾	1.333,00 €
		4	0	0							3x 11 LD V38 installed	2.249,00 €
											4 gas paths	
		1	4	2							2x peristaltic pump CPdouble with adapter ³⁾	5.128,00 €
		1	4	4							2x peristaltic pump CPdouble with screw connection ³⁾	5.281,00 €
		3	0	0							4x AK20 installed ³⁾	1.777,00 €
		4	0	0							4x 11 LD V38 installed	2.998,00 €
Part no.	4	5	9	0						1		

¹⁾Cooler operation inside Ex area only permitted with suitable protective motor switch.

²⁾Operation with condensate drains and traps not available.

³⁾This option limits the approved application of the complete cooler to gas group IIB.

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4.3.8 EGK 2A Ex, for Atex Zone 1 (imperial connections)

Part no.	4	5	9	0												1	Price	Total
																	Voltage ¹⁾	
																	EGK 2A Ex 115V	7.859,00 €
																	EGK 2A Ex 230V	7.447,00 €
																	Gas path/material/version	
																	without heat exchanger	0,00 €
																	1 gas path/material/version	
																	1x single heat exchanger/stainless steel/TS-I	478,00 €
																	1x single heat exchanger/glass/TG-I	496,00 €
																	1x single heat exchanger/PVDF/TV-I	552,00 €
																	2 gas paths/material/version	
																	2x single heat exchanger/stainless steel/TS-I	951,00 €
																	2x single heat exchanger/glass/TG-I	989,00 €
																	2x single heat exchanger/PVDF/TV-I	1.102,00 €
																	1x dual heat exchanger/stainless steel/DTS-6-I	788,00 €
																	1x dual heat exchanger/glass/DTG-I	897,00 €
																	1x dual heat exchanger/PVDF/DTV-I ²⁾	899,00 €
																	3 gas paths/material/version	
																	1x single heat exchanger + 1x dual heat exchanger/stainless steel/TS+DTS-I (3/8")	1.262,00 €
																	1x single heat exchanger + 1x dual heat exchanger/glass/TG+DTG-I	1.389,00 €
																	1x single heat exchanger + 1x dual heat exchanger/PVDF/TV+DTV-I ²⁾	1.450,00 €
																	4 gas paths/material/version	
																	2x dual heat exchanger/stainless steel/DTS-I (3/8")	1.571,00 €
																	2x dual heat exchanger/glass/DTG-I	1.790,00 €
																	2x dual heat exchanger/PVDF/DTV-I ²⁾	1.796,00 €
																	Condensate drain	
																	without condensate drain	0,00 €
																	1 gas path	
																	1x peristaltic pump CPsingle with adapter ³⁾	1.796,00 €
																	1x peristaltic pump CPsingle with screw connection ³⁾	1.835,00 €
																	1x AK20 installed ³⁾	445,00 €
																	1x 11 LD V38 installed	750,00 €
																	2 gas paths	
																	1x peristaltic pump CPdouble with adapter ³⁾	2.684,00 €
																	1x peristaltic pump CPdouble with screw connection ³⁾	2.761,00 €
																	2x AK20 installed ³⁾	889,00 €
																	2x 11 LD V38 installed	1.499,00 €
																	3 gas paths	
																	1x peristaltic pump CPdouble + 1x peristaltic pump CPsingle with adapter ³⁾	4.239,00 €
																	1x peristaltic pump CPdouble + 1x peristaltic pump CPsingle with screw connection ³⁾	4.355,00 €
																	3x AK20 installed ³⁾	1.333,00 €
																	3x 11 LD V38 installed	1.333,00 €
																	4 gas paths	
																	2x peristaltic pump CPdouble with adapter ³⁾	5.128,00 €
																	2x peristaltic pump CPdouble with screw connection ³⁾	5.282,00 €
																	4x AK20 installed ³⁾	1.777,00 €
																	4x 11 LD V38 installed	2.998,00 €

¹⁾ Cooler operation inside Ex area only permitted with suitable protective motor switch.

²⁾ Operation with condensate drains and traps not available.

³⁾ This option limits the approved application of the complete cooler to gas group IIB.

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4.4 Washout-optimised cooler types

4.4.1 TC-Standard+; Peltier cooler with two heat exchangers in series

Part no.	4	4	9	6	2	1	2			2			0			0	0	0	Price	Total		
																			Gas cooler models (with 2 in-line heat exchangers)			
1																		TC Standard+ 6121: Ambient temperature 40 °C	1.550,00 €			
2																		TC Standard+ 6122: Ambient temperature 50 °C	1.778,00 €			
																			Certifications			
0																		Standard unit, no special certification	0,00 €			
1																		General purpose - FM	38,00 €			
																			Supply voltage			
1																		115 V AC, 50/60 Hz	0,00 €			
2																		230 V AC, 50/60 Hz	0,00 €			
4																		24 V DC ¹⁾	0,00 €			
																			Heat exchanger			
	2	2	2																Duran glass, 2x MTG-2, metric	885,00 €		
	2	2	7																Duran glass, 2x MTG-2, US	885,00 €		
	2	3	2																PVDF, 2x MTV-2, metric	557,00 €		
	2	3	7																PVDF, 2x MTV-2-I, US	557,00 €		
																			Peristaltic pumps¹⁾			
	0	0																without peristaltic pump	0,00 €			
	2	0																CPdouble with hose nipple, angled	359,00 €			
	4	0																CPdouble with screw connection	395,00 €			
																			Moisture detector / filter			
	0	0																without filter, without moisture detector	0,00 €			
	0	1																without filter, 1 moisture detector with adapter	307,00 €			
	1	0																1 filter, without moisture detector	288,00 €			
	1	1																1 filter with built-in moisture detector	490,00 €			
																			Signal outputs			
	0	0																alarm output only	0,00 €			
	1	0																Analog output, 4..20 mA, incl. status output	48,00 €			
	2	0																Modbus RTU digital output, incl. status output	255,00 €			
Part no.	4	4	9	6	2	1	2			2			0			0	0	0	Catalogue Price			

¹⁾ Peristaltic pumps not possible for 24 V DC!

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4.4.2 TC-Midi+; Peltier cooler with two heat exchangers in series

Part.no.	4	4	9	6	3	1	1											0	0	Price	Total
Gas cooler models																					
1	TC-MIDI+ 6111: Ambient temperature 40 °C																		1.938,00 €		
2	TC-MIDI+ 6112: Ambient temperature 60 °C																		2.216,00 €		
Certifications																					
0	Standard unit, no special certification																		0,00 €		
1	General purpose - FM																		38,00 €		
Supply voltage																					
1	115 V AC, 50/60 Hz																		0,00 €		
2	230 V AC, 50/60 Hz																		0,00 €		
Heat exchanger																					
1	2	2	Duran glass, STG-2, metric																	989,00 €	
1	2	5	Duran glass, STG-2, US																	989,00 €	
1	3	0	PVDF, STV-2, metric ¹⁾																	879,00 €	
1	3	5	PVDF, STV-2-I, US ¹⁾																	879,00 €	
Peristaltic Pumps ⁴⁾																					
0	without peristaltic pump																		0,00 €		
2	CPdouble with hose nipple, angled																		332,00 €		
4	CPdouble with screw connection, metric/US																		370,00 €		
Sample gas pumps ³⁾																					
0	without sample gas pump																		0,00 €		
1	P1, 1 gas path, PVDF, bottom mounted																		454,00 €		
2	P1, 1 gas path, with bypass valve, bottom mounted																		590,00 €		
6	P1, 1 gas path, PVDF, side mounted ²⁾																		454,00 €		
7	P1, 1 gas path, with bypass valve, side mounted ²⁾																		590,00 €		
Moisture detector ⁴⁾ / filter																					
0	0	without filter, without moisture detector																		0,00 €	
0	1	without filter, 1 moisture detector with adapter																		307,00 €	
1	0	1 filter, without moisture detector																		288,00 €	
1	1	1 filter with built-in moisture detector																		490,00 €	
Signal outputs																					
0	0	alarm output only																		0,00 €	
1	0	Analog output, 4..20 mA, incl. status output																		48,00 €	
2	0	Modbus RTU digital output, incl. status output																		255,00 €	
Part.no.	4	4	9	6	3	1	1											0	0	Catalogue Price	

- 1) Condensate outlets only suitable when connecting peristaltic pumps.
- 2) Side mounted sample gas pump P1 only allows 1 filter.
- 3) Factory installed tubing for suction operation.
- 4) When mounted, the maximum ambient temperature is limited to 50 °C.

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4.4.3 TC-Double+; Peltier cooler with two heat exchangers in series

Part no.	4	4	9	6	6	1	1	1	0	0	0	Price	Total	
Gas cooler type														
1												TC-Double+ 6111: Ambient temperature 40 °C	2.133,00 €	
2												TC-Double+ 6112: Ambient temperature 60 °C	2.271,00 €	
Certification														
0												Standard unit, no special certification	0,00 €	
1												General purpose - FM	38,00 €	
Supply voltage														
1												115 V AC, 50/60 Hz	0,00 €	
2												230 V AC, 50/60 Hz	0,00 €	
Heat exchanger														
1	2	2										Duran glass, PTG-2, metric	885,00 €	
1	2	7										Duran glass, PTG-2, US	885,00 €	
1	3	2										PVDF, PTV-2, metric	792,00 €	
1	3	7										PVDF, PTV-2-I, US	792,00 €	
Peristaltic pumps														
0												without peristaltic pump	0,00 €	
2												CPdouble with hose nipple, angled	359,00 €	
4												CPdouble with screw connection ²⁾	395,00 €	
Sample gas pumps¹⁾														
0												ohne Messgaspumpe	0,00 €	
1												P1, PVDF	454,00 €	
2												P1, mit Bypassventil	590,00 €	
Moisture detector / filter²⁾														
0	0											without filter, without moisture detector	0,00 €	
0	1											without filter, 1 moisture detector with adapter	307,00 €	
1	0											1 filter, without moisture detector	288,00 €	
1	1											1 filter with built-in moisture detector	490,00 €	
Signal outputs														
0	0											status output only	0,00 €	
1	0											Analog output, 4..20 mA, incl. status output	48,00 €	
2	0											Modbus RTU digital output, incl. status output	255,00 €	
Part no.	4	4	9	6	3	1	1	1	0	0	0	Catalogue Price		

¹⁾ Factory installed tubing for suction operation.

²⁾ Metric or US connection, depending on heat exchanger.

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4.4.4 EGK 2-19+; compressor cooler with two heat exchangers in series

Part no.	4	5	2							0	EGK 2-19+ with 2 in-line heat exchangers	Price	Total
Housing													
0											Wall mounting	0,00 €	
1											19"-Schrankeinbau	0,00 €	
Supply voltage													
1											115V metric screw connections	2.788,00 €	
2											230V metric screw connections	2.788,00 €	
3											115V US screw connections	2.788,00 €	
4											230V US screw connections	2.788,00 €	
Heat exchanger													
0	0										without heat exchanger	0,00 €	
1	6										2 single-way HE glass / (2x PTG-2)	885,00 €	
1	7										2 single-way HE PVDF / (2x PTV-2 or PTV-2-I)	792,00 €	
Condensate drain													
0											Without condensate drain	0,00 €	
2											2 peristaltic pumps CPsingle with hose connection 90° angle ¹⁾	602,00 €	
4											2 peristaltic pumps CPsingle with Straight hose connection ¹⁾	602,00 €	
Filter													
0											without filter	0,00 €	
1											1 filter installed	319,00 €	
Moisture detector ²⁾													
0											without moisture detector	0,00 €	
1											1 moisture detector installed	368,00 €	
Option ²⁾													
0											No option	0,00 €	
1											with 4-20 mA analogue output for temperature	137,00 €	
Part no.	4	5	2							0	Catalogue Price		

- 1) Each gas path is equipped with a peristaltic pump. The power supply of the pump has the same as for the cooler itself.
- 2) Option "moisture detector" includes option "4 - 20 mA analogue output".

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4.4.5 RC 1.2+; compressor cooler with two heat exchangers in series

Part no.	4	5	9	6	2	1	2	0									0	0	0	0	0		Price	Total
Power supply																								
1																				115 V, 60Hz	2.181,00 €			
2																				230 V, 50Hz	2.181,00 €			
Heat exchanger																								
1	2	2																				1 gas path / two heat exchangers, glass / (STG-2), metric	989,00 €	
1	2	7																				1 gas path / two heat exchangers, glass / (STG-2), US	989,00 €	
1	3	2																				1 gas path/ 2 heat exchangers, PVDF/ (STV-2), metric	879,00 €	
1	3	7																				1 gas path/ 2 heat exchanger, PVDF/ (STV-2), US	879,00 €	
Peristaltic pumps¹⁾																								
0	0																					Without peristaltic pump	0,00 €	
2	0																					CPdouble with hose nipple, angled ²⁾	332,00 €	
4	0																					CPdouble with screw connection metric/US ²⁾	370,00 €	
Moisture detector / filter																								
0	0																					Without filter, without moisture detector	0,00 €	
0	1																					Without filter, 1 moisture detector with adapter	307,00 €	
1	0																					1 filter, without moisture detector	288,00 €	
1	1																					1 Filter with built-in moisture detector	490,00 €	
Signal outputs																								
0	0																					Alarm output only	0,00 €	
1	0																					Analog output, 4..20 mA, incl. status output	48,00 €	
2	0																					Modbus RTU digital output, incl. status output	255,00 €	
Catalogue Price:																								
Part no.	4	5	9	6	2	1	2	0									0	0	0	0	0			

¹⁾ Peristaltic pumps for separate installation are also available, see datasheet 450020.

²⁾ Each gas path is equipped with a peristaltic pump. The power supply of the peristaltic pump is the same as the basic cooler unit.

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4.4.6 TC-KIT+

Part no.	4	4	9	6	2	3	2	0				0	Price	Total	
							2						Gas cooler with 2 heat exchangers	1.299,00 €	
													Gas cooler type		
							2	0					TC-Kit+: Ambient temperature 55 °C	0,00 €	
													Supply voltage		
									1				115 VAC, 50/60 Hz (power supply module)	298,00 €	
									2				230 VAC, 50/60 Hz (power supply module)	298,00 €	
									4				24 V DC	0,00 €	
													Options		
								0	0				Without option	0,00 €	
								0	1				Controller for heated line	151,00 €	
								1	0				Expansion module	347,00 €	
								1	1				Controller and expansion module	497,00 €	
Part no.	4	4	9	6	2	3	2	0				0	Listenpreis gesamt:		

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4.5 Washoutoptimised cooler types, for hazardous areas

4.5.1 TC-Standard+ X2; Peltier cooler with two heat exchangers in series

Part no.	4	4	9	6	2	1	2	2	2	0	0	0	0	Price	Total
Gas cooler models (with 2 heat exchangers in series)															
1	TC-Standard+ 6121 X2: Ambient temperature 40 °C													1.550,00 €	
2	TC-Standard+ 6122 X2: Ambient temperature 50 °C													1.778,00 €	
Certifications															
2	for explosive areas													1.085,00 €	
Supply voltage															
1	115 V AC, 50/60 Hz													0,00 €	
2	230 V AC, 50/60 Hz													0,00 €	
4	24 V DC													0,00 €	
Heat exchanger															
2	2	2	2	Duran glass, 2x MTG-2, metric										885,00 €	
2	2	2	7	Duran glass, 2x MTG-2, US										885,00 €	
2	3	2	PVDF, 2x MTV-2, metric										557,00 €		
2	3	7	PVDF, 2x MTV-2-I, US fitting										557,00 €		
Peristaltic Pumps ¹⁾															
0	0	without peristaltic pump											0,00 €		
2	0	CPdouble X2 with hose nipple, angled											485,00 €		
4	0	CPdouble X2 with screw connection											524,00 €		
Moisture detector / filter															
0	0	without filter, without moisture detector											0,00 €		
0	1	without filter, 1 moisture detector with adapter											307,00 €		
1	0	1 filter, without moisture detector											288,00 €		
1	1	1 filter with built-in moisture detector											490,00 €		
Status outputs															
0	0	status output only											0,00 €		
1	0	Analog output option, add-on											48,00 €		
Part no.	4	4	9	6	2	1	2	2	2	0	0	0	0	Catalogue Price	

¹⁾ 24 V DC CPdouble not electrically connected.

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4.5.2 TC-Midi+ X2; Peltier cooler with two heat exchangers in series

Part no.	4	4	9	6	3	1	2	2	1						0	0	0	Price	Total	
Gas cooler models																				
1																		TC-MIDI+ 6121 X2: Ambient temperature 40 °C	1.938,00 €	
2																		TC-MIDI+ 6122 X2: Ambient temperature 60 °C	2.216,00 €	
Certifications																				
2																		for explosive areas	1.085,00 €	
Supply voltage																				
1																		115 V AC, 50/60 Hz	0,00 €	
2																		230 V AC, 50/60 Hz	0,00 €	
Heat exchanger																				
1	2	2																Duran glass, STG-2, metric	989,00 €	
1	2	7																Duran glass, STG-2, US fitting	989,00 €	
1	3	2																PVDF, STV-2, metric ¹⁾	879,00 €	
1	3	7																PVDF, STV-2-1, US fitting ¹⁾	879,00 €	
Peristaltic Pumps ⁴⁾																				
0																		without peristaltic pump	0,00 €	
2																		CPdouble X2 with hose nipple, angled	459,00 €	
4																		CPdouble X2 with screw connection, metric/US fitting	497,00 €	
Sample Gas Pumps ³⁾																				
0																		without sample gas pump	0,00 €	
1																		P1.3, 1 gas path, PVDF, bottom mounted	581,00 €	
2																		P1.3, 1 gas path, with bypass valve, bottom mounted	717,00 €	
6																		P1.3, 1 gas path, PVDF, side mounted ²⁾	581,00 €	
7																		P1.3, 1 gas path, with bypass valve, side mounted ²⁾	717,00 €	
Moisture detector ⁴⁾ / Filter																				
0	0																	without filter, without moisture detector	0,00 €	
0	1																	without filter, 1 moisture detector with adapter	307,00 €	
1	0																	1 filter, without moisture detector	288,00 €	
1	1																	1 filter with built-in moisture detector	490,00 €	
Status Outputs																				
0	0																	status output only	0,00 €	
1	0																	Analog output option, add-on	48,00 €	
Part no.	4	4	9	6	3	1	1	2	1						0	0	0	Catalogue Price:		

- ¹⁾ Condensate outlets only suitable when connecting peristaltic pumps.
- ²⁾ Side mounted sample gas pump P1.3 only allows 1 filter.
- ³⁾ Factory installed tubing for suction operation.
- ⁴⁾ When mounted, the maximum ambient temperature is limited to 50 °C.

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4.5.3 TC-Double+ X2

Part no.	4	4	9	6	6	1	1	2	1							0	0	0	Price	Total		
																			Gas cooler type			
1																			TC-Double+ 6111 X2: Ambient temperature 40 °C	2.133,00 €		
2																			TC-Double+ 6112 X2: Ambient temperature 60 °C	2.271,00 €		
																			Certifications			
2																			for explosive areas	1.085,00 €		
																			Supply voltage			
1																			115 V AC, 50/60 Hz	0,00 €		
2																			230 V AC, 50/60 Hz	0,00 €		
																			Heat exchanger			
1	2	2																	Duran glass, PTG-2, metric	885,00 €		
1	2	7																	Duran glass, PTG-2, US	885,00 €		
1	3	2																	PVDF, PTV-2, metric	792,00 €		
1	3	7																	PVDF, PTV-2-I, US	792,00 €		
																			Peristaltic pumps			
0																			without peristaltic pump	0,00 €		
2																			CPdouble X2 with hose nipple, angled	485,00 €		
4																			CPdouble X2 with screw connection ²⁾	524,00 €		
																			Sample Gas Pumps¹⁾			
0																			without sample gas pump	0,00 €		
1																			P1.3, PVDF	581,00 €		
2																			P1.3, with bypass valve	717,00 €		
																			Moisture Detector / Filter ²⁾			
0	0																		without filter, without moisture detector	0,00 €		
0	1																		without filter, 1 moisture detector with adapter	307,00 €		
1	0																		1 filter, without moisture detector	288,00 €		
1	1																		1 filter with built-in moisture detector	490,00 €		
																			Status outputs			
0	0																		status output only	0,00 €		
1	0																		Analogue output option, add-on	48,00 €		
Part no.	4	4	9	6	3	1	1	2	1							0	0	0	Catalogue Price:			

- 1) Factory installed tubing for suction operation.
- 2) Metric or US connection, per heat exchanger.

part-no.	type	unit price
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4.7 Accessories for sample gas cooler

4.7.1 Accessories for EGK 4S

4570008	Mounting bracket EGK 4 S for 4x peristaltic pump	41,00 €
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4.7.2 Accessories for EGK 2A Ex*

* the prices stated in chapter 4.7.2 are non-discountable!

9132020009	motor protection switch PKZM 0-1,6 for EGK 2 Ex range: 1-1,6 A, 230 V/50 Hz	42,00 €
9132020029	motor protection switch PKZM 0-4 for EGK 2 Ex range: 2,5-4A 115 V / 60 Hz	105,00 €
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 < 8527/21-06-0001	848,00 €
9132020035	motor protection switch 8146/5-V27 adjust range 2,5-4A 115 V 50/60Hz (0/230/400/500V) for assembling in hazardous area zone 1, 2, 21, 22 <8527/21-08-0001	820,00 €

part-no.	type	unit price
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4.8 Water chillers / Gas scrubbers / Pre-coolers

4.8.1 Water chillers

4612999	Water - Chiller 170 IST, stainless steel 1.457	909,00 €
4641999	Water - Chiller 170 IST Ti, Titanium	3.170,00 €

4.8.2 Sample gas scrubbers

4610999	Sample gas scrubber and separator 161, stainless steel 1.4571	1.356,00 €
4680999	Sample gas scrubber and sparator 161 - special, PVDF	1.923,00 €
4410089	wash bottle WF-AGF-PV-30, V=0,6l material: PVDF/glass/Viton	453,00 €
4410089I	wash bottle WF-AGF-PV-30, V=0,6l connection NPT 1/4 material: PVDF/glass/Viton	453,00 €
4410091	wash bottle WF-AGF-PV-30, v=0,6l material: PVDF/glass/Viton with diffuser	500,00 €
4410091I	wash bottle WF-AGF-PV-30, v=0,6l connection NPT 1/4 material: PVDF/glass/Viton with diffuser	500,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4411004	Separator AK 20 V material: PVDF	384,00 €
4410002	Separator 11 LD Spec. material: stainless steel	807,00 €
4613099	Centrifugal separator 165 SS, SS 1.4571	525,00 €
4612199	Centrifugal separator 167 T-P-DN8/12 material PTFE/Perfluorelastomer	516,00 €
4612299	Centrifugal separator 167 T-V-DN4/6 material PTFE/Viton	430,00 €
4612399	Centrifugal separator 167 T-V-DN6/8 material PTFE/Viton	430,00 €
4612499	Centrifugal separator 167 T-V-DN8/12 Material: PTFE/Viton	430,00 €
4612599	Centrifugal separator 167 T-P-DN4/6 material PTFE/Perfluorelastomer	516,00 €
4612699	Centrifugal separator 167 T-P-DN6/8 material PTFE/Perfluorelastomer	516,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4.8.4 Pre-coolers		
4500999	pre-cooler TS10, 230V 50Hz with fan and peristaltic pump complete mounted in a stainless steel housing	1.600,00 €
4500899	pre-cooler TS10, 115V 60Hz with fan and peristaltic pump complete mounted in a stainless steel housing	1.600,00 €
4500799	pre-cooler TS10, 230V 50Hz with fan and peristaltic pump complete mounted in a stainless steel housing cooling coil: glas coated	2.178,00 €

4.8.5 Precooling and acidification

45002020000	Pre cooler PC 1 115 - 230 V AC Glass heat exchanger without acid dosage	439,00 €
45002420000	Pre cooler PC 1 24 V DC Glass heat exchanger without acid dosage	439,00 €
45002020010	Pre cooler PC 1 115 - 230 V AC Glass heat exchanger Prepared for additional acid dosage	439,00 €
45002420010	Pre cooler PC 1 24 V DC Glass heat exchanger Prepared for additional acid dosage	439,00 €

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part-no.	type	unit price
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4.8.6 Dosing unit EMIDos

Part no.	4 5 0 0 3	1	1	0	0	Price	Total
						Voltage	
						115-230 V AC	627,00 €
						Metering pump	
						Cpsingle 0,13l/h	0,00 €
						Liquid level monitoring	
						without liquid level sensor	0,00 €
						with liquid level sensor	249,00 €
Part no.	4 5 0 0 3					Catalogue Price	

4.8.7 Accessories Dosing unit

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 €
45003011I	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 €

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4.9 Condensate discharge

4.9.1 Peristaltic pumps model range CP with CE- and FM-Approval

Part no.	4	4	9	2							Product characteristic	Price	Total
											Gas path		
1											Single gas path	222,00 €	
2											Double gas path	300,00 €	
											Version		
1											Housing version	28,00 €	
2											Built-in version	0,00 €	
											Supply voltage		
2											115 / 230 V AC	0,00 €	
4											24 V DC	18,00 €	
											Area of application		
0											Standard applications – CE	0,00 €	
1											General purpose - FM	131,00 €	
											Hose material ¹⁾²⁾	1 Gas path	2 Gas paths
1											Tygon (Norpren)	0,00 €	0,00 €
2											Fluran	28,00 €	56,00 €
3											Marpren	28,00 €	56,00 €
											Flow rate / hour		
0											0,3 l/h	0,00 €	
2											13 ml/h (only 115 / 230 V AC, single gas path)	0,00 €	
3											61 ml/h (only 115 / 230 V AC, single gas path)	0,00 €	
4											25 ml/min or 1,5 l/h (only 24 V DC, single gas path, for standard applications – CE)	0,00 €	
											Hose connection ³⁾	1 Gas path	2 Gas paths
1											straight hose nipple	0,00 €	0,00 €
2											angled hose nipple	0,00 €	0,00 €
3											straight and angled hose nipple	0,00 €	0,00 €
4											Screw connection (metric) DN 4/6	40,00 €	80,00 €
5											Screw connection (US) 1/6"-1/4"	40,00 €	80,00 €
6											angled hose nipple and screw connection (metric)	23,00 €	40,00 €
7											angled hose nipple and screw connection (US)	23,00 €	40,00 €
8											straight hose nipple and screw connection (metric)	23,00 €	40,00 €
9											straight hose nipple and screw connection (US)	23,00 €	40,00 €
Part no.	4	4	9	2							Catalogue price		

- 1) Please not hose material information during selection.
- 2) For 1L/h pumps as well as 13 ml/h and 61 ml/h metering pumps the only hose material option is Norprene.
- 3) For 1L/h pumps as well as 13 ml/h and 61 ml/h metering pumps the only hose connection choices are "option 4 and 5".

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4.9.2 CP Single 1l

Part no.	4	4	9	2	1								Product characteristic	Price	Total
													Gas path		
					1								Single gas path	456,00 €	
													Version		
					1								Housing version	28,00 €	
					2								Built-in version	0,00 €	
													Versorgungsspannung		
					7								115 V 60 Hz	0,00 €	
					8								230 V 50 Hz	0,00 €	
													Anwendungsbereich		
					0								Standard applications – CE	0,00 €	
													Schlauchmaterial ^{1) 2)}		
					1								Tygon (Norpren)	0,00 €	
													Flow rate / hour		
					1								1 l/h	0,00 €	
													Schlauchanschluss		
												1	straight hose nipple	0,00 €	
												2	angled hose nipple	0,00 €	
												3	straight and angled hose nipple	0,00 €	
												4	Screw connection (metric) DN 4/6	40,00 €	
												5	Screw connection (US) 1/6"-1/4"	40,00 €	
												6	angled hose nipple and screw connection (metric)	23,00 €	
												7	angled hose nipple and screw connection (US)	23,00 €	
												8	straight hose nipple and screw connection (metric)	23,00 €	
												9	straight hose nipple and screw connection (US)	23,00 €	
Part no.	4	4	9	2	1								Catalogue price		

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4.9.3 Peristaltic pumps model range CP with ATEX 2, IECEx and Cl.1 Div.2 approval

Part no.	4	4	9	2	2	2	Product characteristic	Price	Total
							Gas path		
1							Single gas path	222,00 €	
2							Double gas path	300,00 €	
							Version		
1							Housing version	28,00 €	
2							Built-in version	0,00 €	
							Supply voltage		
2							115 / 230 V AC	0,00 €	
							Area of application		
2							for explosive areas	131,00 €	
							Hose material ^{1) 2)}	1 Gas path	2 Gas paths
1							Tygon (Norprene)	0,00 €	0,00 €
2							Fluran	28,00 €	56,00 €
3							Marpren	28,00 €	56,00 €
							Flow rate / hour		
0							0,3 l/h	0,00 €	
2							13 ml/h (only 115 / 230 V AC, single gas path)	0,00 €	
3							61 ml/h (only 115 / 230 V AC, single gas path)	0,00 €	
							Hose connection ³⁾	1 Gas path	2 Gas paths
1							straight hose nipple	0,00 €	0,00 €
2							angled hose nipple	0,00 €	0,00 €
3							straight and angled hose nipple	0,00 €	0,00 €
4							Screw connection (metric) DN 4/6	40,00 €	80,00 €
5							Screw connection (US) 1/6"-1/4"	40,00 €	80,00 €
6							angled hose nipple and screw connection (metric)	23,00 €	40,00 €
7							angled hose nipple and screw connection (US)	23,00 €	40,00 €
8							straight hose nipple and screw connection (metric)	23,00 €	40,00 €
9							straight hose nipple and screw connection (US)	23,00 €	40,00 €
Part no.	4	4	9	2	2	2	Catalogue price		

- 1) Please not hose material information during selection.
- 2) For 13 ml/h and 61 ml/h metering pumps the only hose material option is Tygon (Norprene).
- 3) For 13 ml/h and 61 ml/h metering pumps the only hose connection choices are "option 4 and 5".

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4.9.4 Peristaltic pumps model range CP with ATEX 1 approval

Part no.	4	4	9	2	1	3	1	0	Product characteristic	Price	Total
									Gas path		
					1				Single gas path	1.535,00 €	
					2				Double gas path	2.425,00 €	
									Version		
					1				Housing version	28,00 €	
									Supply voltage		
					1				115 V AC	0,00 €	
					3				230 V AC	0,00 €	
									Area of application		
					3				for explosive areas zone 1	0,00 €	
									Hose material		
					1				Tygon (Norpren)	0,00 €	
									Flow rate / hour		
					0				0,3 l/h	0,00 €	
									Hose connection	1 Gas path	2 Gas paths
								1	straight hose nipple	0,00 €	0,00 €
								4	Screw connection (metric) DN 4/6	40,00 €	80,00 €
Part no.	4	4	9	2	1	3	1	0	Catalogue price		

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part-no.	type	unit price
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4.9.5 Replacement hoses CPsingle, CPdouble

Part no.	4	4	9	2	0	0	3	5	Product characteristics	
									Flow rate*	
									0	0,3 l/h
									2	13 ml/h or 61 ml/h
										Hose material
									1	Tygon (Norprene)
									2	Fluran
									3	Marprene
										Hose connection²⁾
									1	straight hose nipple
									2	angled hose nipple
									3	straight and angled hose nipple
									4	Screw connection (metric) DN 4/6
									5	Screw connection (US) 1/6"-1/4"
									6	angled hose nipple and screw connection (metric)
									7	angled hose nipple and screw connection (US)
									8	straight hose nipple and screw connection (metric)
									9	straight hose nipple and screw connection (US)
Part no.	4	4	9	2	0	0	3	5		

* Please not hose material information during selection.

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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 €

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part-no.	type	unit price
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Flow rate 1 l/h respect. 1,5 l/h

Item No.	Hose material	Hose connection	unit price
44920035111	Norprene	With straight connections	41,00 €
44920035112		With 90° angle connetion	41,00 €
44920035113		1 with 90° angle connection 1 straight connection	41,00 €
44920035114		With screw connetions DN 4/6	82,00 €
44920035115		With Screw connection (US) 1/6"-1/4"	82,00 €
44920035116		With 90° angle connetion and screw connection DN 4/6	64,00 €
44920035117		With 90° angle connetion and screw connection 1/6" - 1/4"	64,00 €
44920035118		With straight connetion and screw connection 4/6	61,00 €
44920035119		1 x screw connetion 1/6" - 1/4" 1 x straight connetion	61,00 €

Flow rate 0,01 l/h respect. 0,06 l/h

Item No.	Hose material	Hose connection	unit price
44920035214	Norprene	Screw connection (metric) DN 4/6	82,00 €
44920035215		Screw connection (US) 1/6"-1/4"	82,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4.9.6 Automatic condensate drains		
4410004	Autom. Condensate drain AK 20 PVDF	384,00 €
4410001	Automatic condensate drain 11 LD V 38, stainless steel	750,00 €
4510006	Automatic condensate DRAIN Type AK 5.1, PVDF Condensate inlet from rear	384,00 €
4510008	Automatic condensate drain Type AK 5.2, PVDF Condensate inlet from top	384,00 €
4510009	Automatic condensate drain Type AK 5.3, PVDF two condensate inlets from top	463,00 €
4510017	Automatic condensate drain Type AK 5.4, PVDF one condensate inlet from rear, one from top	491,00 €
4510028	Automatic condensate drain AK 5.5 PVDF condensate inlet G3/8 on top	384,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4.9.7 Condensate vessels		
* * the prices in chapter 4.9.7 of the CV-series are not discountable!		
4410005	Condensate vessel with drain cock GL 1, glass with support made from PVC	384,00 €
4410019	Condensate vessel with drain cock GL 2, glass with support made from PVC	430,00 €
4410029	Condensate vessel GL 3 with level switch	511,00 €
44100292	Drain cock for GL 3	131,00 €
4410088	condensate vessel CV-3-NS, V=3L with level max. switch with ball valve for condensate drain material: PVDF/PVC/Viton	660,00 €
4410096	condensate vessel CV-6-NS, V=6,5l with level max. switch connections G3/8 and G1/4 material: PVC/PVDF/PP/Viton	780,00 €
4410097	condensate vessel V6,5l without level switch material: PVDF/PVC/Viton	667,00 €
4410094	condensate vessel CV-10-NS, V=10l with level max. switch connections G3/8 and G1/4 material: PVC/PVDF/PP/Viton	803,00 €
4410095	condensate vessel V10l without level switch material: PVDF/PVC/Viton	689,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4.9.8 Connection set		
4500001	connection set for AK 5.5 and AK 20 to heat exchanger PTG and TG, one gas path, glass	80,00 €
4500002	connection set 11 LD V38 to heat exchanger PTG and TG, one gas path, glass	84,00 €
4500005	connection set AK 5.5 and AK 20 to heat exchanger DTS, two gas path, steel	164,00 €
4500006	connection set 11 LD V 38 to heat exchanger DTS, two gas path, steel	184,00 €
4500007	connection set AK 5.5 and AK 20 to heat exchanger DTG, two gas path, glass	140,00 €
4500008	connection set 11 LD V 38 to heat exchanger DTG, two gas path, glass	162,00 €
4500021	connection set peristaltic pump CP with hose to heat exchanger PTV, PTS, TV, TS	66,00 €
4500022	Connection set peristaltic pump CP with hose for Heat exchanger PTG, TG, TGH	56,00 €
4500023	Connecting kit peristaltic pump CP with hose nipple for cooler with heat exchanger DTS	116,00 €
4500024	Connecting kit peristaltic pump CP with hose nipple for cooler with heat exchanger DTS-6	61,00 €

<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4.10 Moisture detectors		
4.10.1 Moisture detectors		
4111100	Moisture detector FF-3-N with broken wire detection with M12 plug	161,00 €
41111000	Moisture detector FF-3-N with broken wire detection with M12 plug cable length 4 m	181,00 €
4189699	Moisture detector FF-40 with broken cable detection operating pressure max. 40 bar cable length 4 m	248,00 €
4.10.2 Controllers		
4111017	Controller FF - 1 - U 115 / 230 V AC, 50 / 60 Hz	268,00 €
4111015	Controller FF - 3 - U 115 / 230 V AC, 50 / 60 Hz	268,00 €
4111016	Controller FF - 3 - U - 2 115 / 230 V AC, 50 / 60 Hz	495,00 €
4111012	Controller ER-145/A/Ex for FF-3-X 230 V AC, 48 - 62 Hz	418,00 €
4111014	Controller ER 145/A/Ex for FF-3-X 115 V AC, 48 - 62 Hz	418,00 €
4111020	Controller FF-HM-230 for moisture detector FF1 and FF3N for top hat rail mounting 115/230V 50/60Hz	283,00 €
4111030	Controller FF- HM- 24 24V DC for FF-1 and FF-3-N	283,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
4.10.3 Accessories		
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 €

part-no.	type	unit price
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5 Accessories

5.1 Flow meters

5.1.1 Flow meters standard measure range air / water (without mounted flow sensor)

Part no.	4	0	5	6			9	9	Range*	price
					0	0			air 6 – 60 NL/h	
					0	1			air 10 – 100 NL/h	
					0	2			air 25 – 250 NL/h	
					0	3			air 50 – 500 NL/h	
					0	4			air 80 – 800 NL/h	
					0	5			water 0.5 – 5 L/h	
					0	6			water 1.2 – 12 L/h	
					0	7			water 2.5 – 25 L/h	
					0	8			water 4 – 40 L/h	
					0	9			water 6 – 60 L/h	
							0		Without needle valve	489,00 €
							1		valve PVDF / Viton	632,00 €
							2		valve PCTFE / Perfluorelastomer	680,00 €
Part no.	4	0	5	6			9	9		

* standard measuring tube; air 20 C 1,2 bar abs; water 20 C

5.1.2 Flow meters standard measure range air / water (with mounted flow sensor)

Part no.	4	0	5	6			9	9	S	Range*	price
					0	0				air 6 – 60 NL/h	
					0	1				air 10 – 100 NL/h	
					0	2				air 25 – 250 NL/h	
					0	3				air 50 – 500 NL/h	
					0	4				air 80 – 800 NL/h	
					0	5				water 0.5 – 5 L/h	
					0	6				water 1.2 – 12 L/h	
					0	7				water 2.5 – 25 L/h	
					0	8				water 4 – 40 L/h	
					0	9				water 6 – 60 L/h	
							0			Without needle valve	917,00 €
							1			valve PVDF / Viton	1.060,00 €
							2			valve PCTFE / Perfluorelastomer	1.108,00 €
Part no.	4	0	5	6			9	9	S		

* standard measuring tube; air 20 C 1,2 bar abs; water 20 C

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part-no.	type	unit price
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5.1.3 Flow meters special measure range air / water (without mounted flow sensor)

Part no.	4	0	5	6			9	9	Range	price
					1	0			special measure range	
						0			Without needle valve	589,00 €
						1			valve PVDF / Viton	739,00 €
						2			valve PCTFE / Perfluorelastomer	813,00 €
Part no.	4	0	5	6			9	9		

5.1.4 Flow meters special measure range air / water (with mounted flow sensor)

Part no.	4	0	5	6			9	9	S	Range	price
					1	0				special measure range	
						0				Without needle valve	1.018,00 €
						1				valve PVDF / Viton	1.169,00 €
						2				valve PCTFE / Perfluorelastomer	1.210,00 €
Part no.	4	0	5	6			9	9	S		

5.1.5 Controller for flow switches

9100070004	Controller for flow switch KFD 2 - SR 2 - Ex1.W 24 V DC	274,00 €
9100070005	Controller Type KFA5-SR2-Ex1.W, 115V Class1, Div.1, Groups A-G Installation: only in non Ex zones	248,00 €
9100070006	Controller for flow switch KFA 6 - SR 2 - Ex1.W 230 V AC, 50 / 60 Hz Installation: only in non Ex zones	248,00 €
9100070007	Controller for flow switch KC D2 - E2L 24 V DC	136,00 €

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<i>part-no.</i>	<i>type</i>	<i>unit price</i>
5.1.6 Safety flow meters		
4022999	Safety flow meter S-SM 3-1 VA materials: 1.4571/glass measuring range	1.516,00 €
4023999	Safety flow meter S - SM 3 - 1 Titan measuring range	1.837,00 €
4024999	Safety flow meter S-SM 4 materials: 1.4571/PTFE/glass measuring range	2.619,00 €
4025999	Safety flow meter S - SM 4 - 1	2.641,00 €
4026999	Safety flow meter S-SM 5 materials: 1.4571/PTFE/glass measuring range	4.392,00 €

<i>part-no.</i>	<i>type</i>	<i>unit price</i>
5.2 Valves		
5.2.1 Needle valves		
4001899	Needle valve NVT - 3 material: PTFE/ PVDF/ Viton	253,00 €
4001799	Needle valves NVT - 3 - SO material: PTFE/PCTFE/ perfluorelastomer	313,00 €
5.2.2 Ball valves		
4061299	2 way ball valve GKH-2-PVDF material: PVDF/ Viton G 1/4, DN 4 mm	145,00 €
4071299	2 way ball valve GKH-2-PFA material: PFA/Viton G1/4, DN 4 mm	347,00 €
4061399	3 way ball valve GKH-3-PVDF material: PVDF/ Viton G 1/4, DN 4 mm	169,00 €
4071399	3 way ball valve GKH-3-PFA material: PFA/Viton G1/4, DN 4mm	431,00 €
4061599	5 way ball valve GKH-5-PVDF material: PVDF/ Viton G 1/4, DN 4 mm	249,00 €
4071599	5 way ball valve GKH-5-PFA material: PFA/ Viton G 1/4, DN 4mm	668,00 €
5.2.3 Back pressure regulator		
4600999	Back pressure regulator ARP - 1.2 connections DN1/6 / 1/4 body, fittings PP membrane Cu Be valve 1.4571/PVDF/Viton setting 1067 mbar +/- 2	476,00 €

part-no.	type	unit price
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5.3 Hose connections, fittings

Typical fittings in PVDF are on stock. But not every version is available from stock. In case of doubts please request.

Price and delivery times for fittings in PFA are available on request. Please also request for other dimensions.

5.3.1 Straight male screw connection

Metric hose G thread

Item No. (PVDF)	Hose dimension	Thread (external)	
4346054	DN 4/6	G 1/8	20,00 €
4346055		G 1/4	22,00 €
4346056		G 3/8	26,00 €
4346057		G 1/2	27,00 €
43701001	DN 5/8	G 1/8	30,00 €
4368083		G 1/4	23,00 €
4368003		G 3/8	24,00 €
43701002		G 1/2	46,00 €
4368050	DN 6/8	G 1/8	23,00 €
4368051		G 1/4	23,00 €
4368052		G 3/8	27,00 €
4368053		G 1/2	28,00 €
4381045	DN 8/12	G 1/4	31,00 €
4381046		G 3/8	33,00 €
4381047		G 1/2	35,00 €
4346095	DN 10/12	G 3/8	40,00 €
4368086		G 1/2	40,00 €

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part-no.	type	unit price
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5.3.2 Straight female screw connection

Metric hose G thread

Item No. (PVDF)	Hose dimension	Thread (internal)	unit price
4346062	DN 4/6	G 1/8	26,00 €
4346063		G 1/4	26,00 €
4346064		G 3/8	26,00 €
4346065		G 1/2	26,00 €
4368058	DN 6/8	G 1/8	28,00 €
4368059		G 1/4	28,00 €
4368060		G 3/8	30,00 €
4368061		G 1/2	45,00 €
4381051	DN 8/12	G 1/4	40,00 €
4381052		G 3/8	42,00 €
4381053		G 1/2	40,00 €
4368081	DN 10/12	G 3/8	40,00 €
43708001		G 1/2	73,00 €

Metric hose NPT thread

Item No. (PVDF)	Hose dimension	Thread (internal)	unit price
4346081	DN 4/6	NPT 1/8	26,00 €
43708002		NPT 1/4	33,00 €
43708003		NPT 3/8	36,00 €
43708004		NPT 1/2	37,00 €
43708005	DN 6/8	NPT 1/8	40,00 €
43708006		NPT 1/4	41,00 €
43708007		NPT 3/8	44,00 €
43708008		NPT 1/2	48,00 €
43708009	DN 8/12	NPT 1/4	53,00 €
43708010		NPT 1/2	73,00 €
43708011	DN 10/12	NPT 3/8	56,00 €
43708012		NPT 1/2	73,00 €

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Gas Analysis



part-no.	type	unit price
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5.3.3 Elbow male screw connection

Metric hose G thread

Item No. (PVDF)	Hose dimension	Thread (external)	unit price
4346068	DN 4/6	G 1/8	21,00 €
4346069		G 1/4	23,00 €
4346070		G 3/8	27,00 €
4346071		G 1/2	36,00 €
43702001	DN 5/8	G 1/8	31,00 €
43702002		G 1/4	35,00 €
4368084		G 3/8	34,00 €
43702003		G 1/2	54,00 €
4368064	DN 6/8	G 1/8	24,00 €
4368065		G 1/4	24,00 €
4368066		G 3/8	31,00 €
4368067		G 1/2	66,00 €
4381056	DN 8/12	G 1/4	39,00 €
4381057		G 3/8	49,00 €
4381058		G 1/2	41,00 €
43702004	DN 10/12	G 3/8	61,00 €
4381085		G 1/2	57,00 €

Metric hose NPT thread

Item No. (PVDF)	Hose dimension	Thread (external)	unit price
4346072	DN 4/6	NPT 1/8	21,00 €
4346073		NPT 1/4	23,00 €
4346074		NPT 3/8	27,00 €
4346075		NPT 1/2	33,00 €
43702005	DN 5/8	NPT 1/8	33,00 €
43702006		NPT 1/4	33,00 €
4368148		NPT 3/8	35,00 €
4368068	DN 6/8	NPT 1/8	24,00 €
4368069		NPT 1/4	24,00 €
4368070		NPT 3/8	65,00 €
4368071		NPT 1/2	70,00 €
4381059	DN 8/12	NPT 1/4	75,00 €
4381060		NPT 3/8	35,00 €
4381061		NPT 1/2	44,00 €
43702007	DN 10/12	NPT 3/8	61,00 €
43702008		NPT 1/2	20,00 €

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Gas Analysis



part-no.	type	unit price
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5.3.5 Elbow female screw connection

Metric hose G thread

Item No. (PVDF)	Hose dimension	Thread (internal)	unit price
43703001	DN 4/6	G 1/8	35,00 €
43703002		G 1/4	36,00 €
43703003		G 3/8	41,00 €
43703004		G 1/2	54,00 €
43703005	DN 6/8	G 1/8	42,00 €
43703006		G 1/4	42,00 €
43703007		G 3/8	46,00 €
43703008		G 1/2	60,00 €
43703009	DN 8/12	G 1/4	80,00 €
43703010		G 3/8	84,00 €
43703011		G 1/2	87,00 €
43703012	DN 10/12	G 3/8	92,00 €
43703013		G 1/2	92,00 €

Metric hose NPT thread

Item No. (PVDF)	Hose dimension	Thread (internal)	unit price
43703014	DN 4/6	NPT 1/8	35,00 €
43703015		NPT 1/4	36,00 €
43703016		NPT 1/2	54,00 €
43703017	DN 6/8	NPT 1/8	42,00 €
43703018		NPT 1/4	42,00 €
43703019		NPT 3/8	46,00 €
43703020		NPT 1/2	60,00 €
43703021	DN 8/12	NPT 1/2	92,00 €
43703022	DN 10/12	NPT 1/2	92,00 €

Imperial hose G thread

Item No. (PVDF)	Hose dimension	Thread (internal)	unit price
43703037	1/4"-1/8"	G 1/4	40,00 €
43703038	1/2"-3/8"	G 3/8	61,00 €

Imperial hose NPT thread

Item No. (PVDF)	Hose dimension	Thread (internal)	unit price
43703039	3/8"-1/4"	NPT 1/4	75,00 €

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Gas Analysis



part-no.	type	unit price
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5.3.6 Y-piece male screw connection

Metric hose G thread

Item No. (PVDF)	Hose dimensions	Thread (external)	
43705001	DN 4/6	G 1/8	103,00 €
4346050		G 1/4	77,00 €
43705002	DN 6/8	G 1/8	105,00 €
43705003		G 1/4	105,00 €

Metric hose NPT thread

Item No. (PVDF)	Hose dimensions	Thread (external)	
43705004	DN 4/6	NPT 1/8	103,00 €
4346084		NPT 1/4	70,00 €

Imperial hose NPT thread

Item No. (PVDF)	Hose dimensions	Thread (external)	
43705005	1/4"-1/6"	NPT 1/4	112,00 €

5.3.7 Cross-union screw connection, hose connection on all sides

Crosspiece (metric)

Item No. (PVDF)	Hose dimensions		
4346077	DN 4/6		73,00 €
4368073	DN 6/8		57,00 €
4381063	DN 8/12		92,00 €
43714001	DN 10/12		147,00 €

5.3.8 Bulkhead screw connection, two-sided hose connection

Bulkhead screw connections (metric)

Item No. (PVDF)	Hose dimensions		
4346067	DN 4/6		26,00 €
4368063	DN 6/8		36,00 €
4381055	DN 8/12		45,00 €
4381953	DN 10/12		46,00 €

Bulkhead screw connections (imperial)

Item No. (PVDF)	Hose dimensions		
43713001	1/4"-1/8"		46,00 €
4346087	1/4"-1/6"		26,00 €
43713002	3/8"-1/4"		53,00 €

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Gas Analysis



part-no.	type	unit price
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5.3.9 T-piece male screw connection

Metric hose G thread

Item No. (PVDF)	Hose dimensions	Thread (external)	unit price
4346079	DN 4/6	G 1/8	31,00 €
4346103		G 1/4	33,00 €
43706001	DN 6/8	G 1/8	44,00 €
43706002		G 1/4	44,00 €

Imperial hose G thread

Item No. (PVDF)	Hose dimensions	Thread (external)	unit price
43706003	1/4"-1/8"	G 1/4	40,00 €
43706004	1/4"-1/6"	G 1/8	40,00 €
43706005		G 1/4	40,00 €

Imperial hose NPT thread

Item No. (PVDF)	Hose dimensions	Thread (external)	unit price
43706006	1/4"-1/8"	NPT 1/8	39,00 €
43706007	1/4"-1/6"	NPT 1/8	36,00 €

5.3.10 T-piece male screw connection (asymmetric)

Metric hose G thread

Item No. (PVDF)	Hose dimensions	Thread (internal)	unit price
43707001	DN 4/6	G 1/8	42,00 €
4346078		G 1/4	35,00 €
43707002	DN 6/8	G 1/8	52,00 €
43707003		G 1/4	53,00 €

Metric hose NPT thread

Item No. (PVDF)	Hose dimensions	Thread (internal)	unit price
43707004	DN 4/6	NPT 1/8	44,00 €
4346083		NPT 1/4	36,00 €
43707005	DN 6/8	NPT 1/8	55,00 €
43707006		NPT 1/4	104,00 €

Imperial hose G thread

Item No. (PVDF)	Hose dimensions	Thread (internal)	unit price
43707007	1/4"-1/8"	G 1/4	135,00 €

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Gas Analysis



part-no.	type	unit price
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5.3.11 Connector piece, two-sided hose connection

Straight connector / Hose - hose (metric)

Item No. (PVDF)	Hose dimension 1	Hose dimension 2	unit price
4346066	DN 4/6	DN 4/6	23,00 €
4346051		DN 6/8	37,00 €
4368062	DN 6/8	DN 6/8	27,00 €
4381054	DN 8/12	DN 8/12	45,00 €
4346121	DN 10/12	DN 10/12	42,00 €

Straight connector / Hose - hose (imperial)

Item No. (PVDF)	Hose dimension 1	Hose dimension 2	unit price
43709001	1/4"-1/8"	1/4"-1/8"	23,00 €
43709002	1/4"-1/6"	1/4"-1/6"	27,00 €
43709003	3/8"-1/4"	3/8"-1/4"	46,00 €

5.3.12 Connector piece, hose-to-pipe

Straight connector / Hose - pipe (metric)

Item No. (PVDF)	Hose dimension	Pipe dimensions	unit price
4346088	DN 4/6	6	40,00 €
43710001		10	119,00 €
43710002	DN 6/8	6	92,00 €
43710003		10	119,00 €
43710004	DN 8/12	10	128,00 €
43710005	DN 10/12	10	130,00 €

Straight connector / Hose - pipe (imperial)

Item No. (PVDF)	Hose dimension	Pipe dimensions	unit price
43710006	1/4"-1/8"	1/4"	60,00 €

Straight connector / Hose (imperial) / Pipe (metric)

Item No. (PVDF)	Hose dimension	Pipe dimensions	unit price
43710007	1/4"-1/6"	6	60,00 €

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Gas Analysis



part-no.	type	unit price
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5.3.13 T-piece, hose connection on all sides

T-connector (metric)

Item No. (PVDF)	Hose dimensions		
4346076	DN 4/6		33,00 €
4368072	DN 6/8		40,00 €
4381062	DN 8/12		55,00 €
4381083	DN 10/12		60,00 €

T-connector (imperial)

Item No. (PVDF)	Hose dimensions		
43711001	1/4"-1/8"		42,00 €
4346099	1/4"-1/6"		27,00 €
43711002	3/8"-1/4"		61,00 €

5.3.14 Sealing cap

Sealing cap (metric)

Item No. (PVDF)	Thread (external)		
43712001	DN 4/6		14,00 €
43712002	DN 6/8		16,00 €
43712003	DN 8/12		24,00 €
4346096	DN 10/12		39,00 €

Sealing cap (imperial)

Item No. (PVDF)	Thread (external)		
43712004	NPT 1/8"		14,00 €
43712005	NPT 1/4"		27,00 €
43712006	NPT 3/8"		18,00 €
43712007	NPT 1/2		41,00 €

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Gas Analysis



part-no.	type	unit price
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5.3.15 Small parts (replacement)

Small parts (metric)

Thread (external)	Knurled nut PVDF		Clamping ring PVDF	
DN 4/6	4350213	12,00 €	9008925	6,00 €
DN 5/8	4350214	12,00 €	4350219	11,00 €
DN 6/8	4350214	12,00 €	4350219	11,00 €
DN 8/12	4350215	12,00 €	4350220	11,00 €
DN 10/12	4350215	12,00 €	4350220	11,00 €

Small parts (imperial)

Thread (external)	Knurled nut PVDF		Clamping ring PVDF	
1/4"-1/8"	43712022	12,00 €	43712024	7,00 €
1/4"-1/6"	43712022	12,00 €	43712024	7,00 €
3/8"-1/4"	43712023	18,00 €	43712025	7,00 €

part-no.	type	unit price
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5.4 Glass connections, fittings

5.4.1 Glass fittings with hose connection (O-ring)

Screw with hose connections (metric)

Item No. (PVDF)	Hose dimension	Thread (internal)	unit price
43715001	DN 4/6	GL 14	27,00 €
43715002		GL 18	27,00 €
43715003		GL 25	28,00 €
43715004	DN 5/8	GL 18	28,00 €
43715005	DN 6/8	GL 18	28,00 €
43715006		GL 25	31,00 €
4550299	DN 8/12	GL 25	53,00 €
43715007	DN 10/12	GL 25	45,00 €

Screw with hose connections (imperial)

Item No. (PVDF)	Hose dimension	Thread (internal)	unit price
43715008	1/4"-1/8"	GL 14	27,00 €
43715009	1/4"-1/6"	GL 18	27,00 €
43715010	1/2"-3/8"	GL 25	45,00 €

5.4.2 Glass fittings with hose connection

Swivel nut (metric)

Item No. (PBTP)	Hose dimension	Thread (internal)	unit price
45100132	DN 4/6	GL 14	18,00 €
45100133	DN 5/8 DN 8/12 DN 10/12	GL 25	24,00 €
45100140	DN 5/8 DN 6/8 DN 8/10	GL 18	21,00 €

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Gas Analysis



part-no.	type	unit price
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Swivel nut (imperial)

Item No. (PBTP)	Hose dimension	Thread (internal)	unit price
45100132	1/4"-1/8" 1/4"-1/6"	GL 14	18,00 €
45100140	5/16"-3/16" 3/8"-1/4"	GL 18	21,00 €
45100133	5/16"-3/16" 3/8"-1/4" 1/2"-3/8"	GL 25	24,00 €

Seal for locking cap

Item No. (Silikon)	Diameter (inside)	Diameter (outside)	Thread (internal)	unit price
45100134E	6	12	GL 14	20,00 €
45100138E	8	16	GL 18	20,00 €
45100137E	8	22	GL 25	21,00 €
45100138E	8	16	GL 18	20,00 €
45100141E	10	16	GL 18	23,00 €
451001352E	10	22	GL 25	28,00 €
45100135E	12	22	GL 25	28,00 €

Support tube

Item No. (PVDF)	D1	d2	Thread (internal)	Length	unit price
4445014	4	3	GL 14	15	14,00 €
4445012	5	4	GL 18	15	13,00 €
4510273	6	4	GL 25	15	13,00 €
4445013	8	2	GL 18	20	14,00 €
4445015	1/4"	1/6"	GL 18	15	14,00 €
4445016	3/8"	1/4"	GL 25	15	14,00 €
4445010	10	8	GL 25	20	14,00 €

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Gas Analysis



part-no.	type	unit price
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5.5 Stainless Steel fittings

5.5.1 Straight screw-in connection

Screw-in connection (metric)

Item No.	Tube diameter	Threaded connection	
9029007	6	1/4"	28,00 €
9029009		3/8"	36,00 €
9029041	8	1/4"	36,00 €
9029042		3/8"	41,00 €
9029043	10	3/8"	41,00 €
9029044	12	3/8"	56,00 €

Screw-in connection (imperial)

Item No.	Tube diameter	Threaded connection	
9029006	1/4"	1/4"	28,00 €
9029045		3/8"	36,00 €
9029046	3/8"	1/4"	38,00 €
9029047		3/8"	42,00 €
9029048	1/2"	3/8"	56,00 €

NPT Thread (metric)

Item No.	Tube diameter	Threaded connection	
9029000	6	NPT 1/4"	28,00 €
9029049		NPT 3/8"	36,00 €
9029001	8	NPT 1/4"	36,00 €
9029050		NPT 3/8"	41,00 €
9029068		NPT 1/2"	51,00 €
9029051	10	NPT 3/8"	42,00 €
9029052	12	NPT 3/8"	56,00 €

NPT Thread (imperial)

Item No.	Tube diameter	Threaded connection	
9029052	1/4"	NPT 1/4"	56,00 €
9029003		NPT 3/8"	28,00 €
9029053	3/8"	NPT 1/4"	36,00 €
9029011		NPT 3/8"	38,00 €
9029054	1/2"	NPT 1/2"	42,00 €

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Gas Analysis



part-no.	type				unit price
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5.5.2 Straight connector

Straight connector (metric)

Item No.	Tube dimension 1	Tube dimension 2	Length	
9029024	6	6	41	42,00 €
9029056	6	8	39,4	46,00 €
9029057	8	8	43,2	48,00 €
9029058	10	10	46,2	60,00 €

Straight connector (imperial)

Item No.	Tube dimension 1	Tube dimension 2	Length	
9029059	1/4"	1/4"	1,61	42,00 €
9029060		3/8"	1,70	60,00 €
9029061	3/8"	3/8"	1,70	60,00 €

5.5.3 Elbow screw connection

Elbow screw connection (metric)

Item No.	Tube dimension	Threaded connection	
9029017	6	1/4"	53,00 €
9029062		3/8"	76,00 €
9029063	8	1/4"	54,00 €
9029064		3/8"	81,00 €
9029065	10	3/8"	77,00 €
9029066	12	3/8"	91,00 €

Elbow screw connection (imperial)

Item No.	Tube dimension	Threaded connection	
9029067	1/4"	1/4"	53,00 €
9029069		3/8"	76,00 €
9029070	3/8"	1/4"	66,00 €
9029071		3/8"	80,00 €
9029072	1/2"	3/8"	94,00 €

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Gas Analysis



part-no.	type	unit price
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NPT Thread (metric)

Item No.	Tube dimension	Threaded connection	
9029016	6	NPT 1/4"	52,00 €
9029073		NPT 3/8"	75,00 €
9029074	8	NPT 1/4"	55,00 €
9029075		NPT 3/8"	80,00 €
9029076	10	NPT 3/8"	80,00 €
9029077	12	NPT 3/8"	94,00 €

NPT Thread (imperial)

Item No.	Tube dimension	Threaded connection	
9029078	1/4"	NPT 1/4"	53,00 €
9029079		NPT 3/8"	87,00 €
9029080	3/8"	NPT 1/4"	66,00 €
9029081		NPT 3/8"	80,00 €
9029082	1/2"	NPT 3/8"	94,00 €

5.5.4 Angled connector

Connector (metric)

Item No.	Tube dimension	
9029083	6	64,00 €
9029084	8	66,00 €
9029085	10	77,00 €

Connector (imperial)

Item No.	Tube dimension	
9029086	1/4"	64,00 €
9029087	3/8"	77,00 €

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Gas Analysis



part-no.	type	unit price
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5.5.5 Screw-in plug

Plug (metric)

Item No.	Tube dimension	
9008471	G 1/8"	14,00 €
9008472	G 1/4"	16,00 €
9008456	G 3/8"	13,00 €

Plug (imperial)

Item No.	Tube dimension	
9029039	NPT 1/8"	19,00 €
9029022	NPT 1/4"	21,00 €
9029040	NPT 3/8"	27,00 €

5.5.6 Small parts (replacement)

Swivel nut (metric)

Item No.	Tube dimension	
9029091	6	10,00 €
9029092	8	10,00 €
9029093	10	13,00 €
9029094	12	21,00 €

Swivel nut (imperial)

Item No.	Tube dimension	
9029095	1/8"	11,00 €
9029096	1/4"	10,00 €
9029097	3/8"	13,00 €

Clamping collars (set=10 count) (metric)

Item No.	Tube dimension	
9029032	6	73,00 €
9029033	8	88,00 €
9029034	10	90,00 €
9029035	12	126,00 €

part-no.	type	unit price
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Clamping collars (set=10 count) (imperial)

Item No.	Tube dimension	
9029036	1/8"	88,00 €
9029037	1/4"	73,00 €
9029038	3/8"	90,00 €

5.6 Accessories heated sample gas line

* the prices stated in chapter 5.6 are non-discountable!

4853000016	Insulating sleeve for connection of heated lines ID 20 mm / OD 42 mm Length: 80 mm	31,00 €
4853000017	Transitional heater Material: Silicone (elastic) Ambient temperature: -60 °C to +200 °C Operating temperature: +200 °C (self-regulating) Voltage: 230VAC / 115VAC Electrical connection: 1 m silicone cable with cable ends, protection class II International protection class: IP62 Dimensions: $\varnothing_o = 63$ mm, $\varnothing_i = 17$ mm, L = 60 mm	179,00 €
4853000031	Wall-mounted temperature controller type W-530 with hybrid relay + FAT algorithm; Temperature sensor selectable (RTD) Operating voltage 90..260 VAC 50/60 Hz; Switching current max. 10A; Heating circuit connection via flange socket 6 + PE; Hinges red	363,00 €
4853000032	Wall-mounted temperature controller type W-550 with hybrid relay + FAT algorithm; Temperature sensor selectable (RTD) Operating voltage 90..260 VAC 50/60 Hz; Switching current max. 16A; Heating circuit connection via flange socket 4 + PE; Hinges red	420,00 €
4853000038	Wall-mounted temperature controller type W-610 with hybrid relay + FAT algorithm; Temperature sensor selectable (RTD) Operating voltage 90..260 VAC 50/60 Hz; Switching current max. 40A; connection via cable glands; Hinges red	492,00 €

part-no.	type	unit price
6 NOx converter		
6.1 Bünox2+		
55310099	Bünox2+ Gas-Converter (NO2-NO) Voltage: 230V AC 50/60 Hz gas connections ø6 without converter cartridge	3.803,00 €
55311099	Bünox2+ MV Gas-Converter (NO2-NO) Voltage: 230V AC 50/60 Hz with bypass solenoid valves gas connections ø6 without converter cartridge	4.874,00 €
55310098	Bünox2+ Gas-Converter (NO2-NO) Voltage: 115V AC 50/60 Hz gas connections ø6 without converter cartridge	3.803,00 €
55311098	Bünox2+ MV Gas-Converter (NO2-NO) Voltage: 115V AC 50/60 Hz with bypass solenoid valves gas connections ø6 without converter cartridge	4.874,00 €
55310099I	Bünox2+ Gas-Converter (NO2-NO) Voltage: 230V AC 50/60 Hz gas connections ø1/4" without converter cartridge	3.803,00 €
55311099I	Bünox2+ MV Gas-Converter (NO2-NO) Voltage: 230V AC 50/60 Hz with bypass solenoid valves gas connections ø1/4" without converter cartridge	4.874,00 €
55310098I	Bünox2+ Gas-Converter (NO2-NO) Voltage: 115V AC 50/60 Hz gas connections ø1/4" without converter cartridge	3.803,00 €
55311098I	Bünox2+ MV Gas-Converter (NO2-NO) Voltage: 115V AC 50/60 Hz with bypass solenoid valves gas connections ø1/4" without converter cartridge	4.874,00 €

<i>part-no.</i>	<i>type</i>	<i>unit price</i>
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6.2 Accessories 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 €

6.3 Accessories 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 €

part-no.	type	unit price
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7 Portable probes and conditioning systems

7.1 Portable sample probes type Baseline

7.1.1 Probe and accessories

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 €
46760007	Condensate trap 30x155mm with filter element	84,00 €

7.1.2 Filter / filter elements

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 €

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Gas Analysis



<i>part-no.</i>	<i>type</i>	<i>unit price</i>
7.1.3 Mounting accessories		
46760001	Baseline mounting plug conic for holes ϕ 10-20 connection ϕ 8 material 11 S Mn Pb 30	20,00 €
46760002	Baseline mounting-plug conic for holes ϕ 20-60 connection ϕ 8 material 1.4571/1.4401/PTFE	216,00 €
46760003	Baseline mounting-plug R2 connection ϕ 8 material 1.4571/1.4401/PTFE	207,00 €
46760004	Baseline mounting flange DN65 PN6 material 1.4571/1.4401/PTFE incl. flange gasket and screws	237,00 €
46760005	Baseline mounting flange ANSI DN3"-150 material 1.4571/1.4401/PTFE incl. flange gasket	332,00 €

Special mounts on request!

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Gas Analysis



part-no.	type	unit price
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7.2.2 Sampling probe Smartline

Part no.	4677					0	0	
Voltage								
1								115 V AC
2								230 V AC
Length								
3								3 m
5								5 m
Temperature control								
1								self-regulating (120 °C)
2								Temperature controller required (40 - 180 °C)
End termination								
1								Silicone cap, tube Ø6 mm
2								Quick-Lock female (ideal for PCS.smart)
Part no.	4677					0	0	

Filter element required for operation (see Chapter 7.2.3).

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part-no.	type	unit price
4677131100	Smartline lenght 3m 115VAC, 180W, IP54, max. 120°C, self-regulating heated 120°C, connecting ends on both sides ø6, gas wetted parts: 1.4571/1.4404/PTFE/Viton	2.189,00 €
4677131200	Smartline lenght 3m 115VAC, 180W, IP54, max. 120°C, self-regulating heated 120°C, connecting ends ø6, Quick Lock female, gas wetted parts: 1.4571/1.4404/1.4305/PTFE/Viton	2.532,00 €
4677132100	Smartline lenght 3m 115VAC, 300W, IP54, PT100, max. 180°C, external temperature controller required, connecting ends on both sides ø6, gas wetted parts: 1.4571/1.4404/PTFE/Viton	2.282,00 €
4677132200	Smartline lenght 3m 115VAC, 300W, IP54, PT100, max. 180°C, external temperature controller required, connecting ends ø6, Quick Lock female, gas wetted parts: 1.4571/1.4404/1.4305/PTFE/Viton	2.628,00 €
4677151100	Smartline lenght 5m 115VAC, 300W, IP54, max. 120°C, self-regulating heated 120°C, connecting ends on both sides ø6, gas wetted parts: 1.4571/1.4404/PTFE/Viton	2.527,00 €
4677151200	Smartline lenght 5m 115VAC, 300W, IP54, max. 120°C, self-regulating heated 120°C, connecting ends ø6, Quick Lock female, gas wetted parts: 1.4571/1.4404/1.4305/PTFE/Viton	2.873,00 €
4677152100	Smartline lenght 5m 115VAC, 500W, IP54, PT100, max. 180°C, external temperature controller required, connecting ends on both sides ø6, gas wetted parts: 1.4571/1.4404/PTFE/Viton	2.623,00 €
4677152200	Smartline lenght 5m 115VAC, 500W, IP54, PT100, max. 180°C, external temperature controller required, connecting ends ø6, Quick Lock female, gas wetted parts: 1.4571/1.4404/1.4305/PTFE/Viton	2.969,00 €

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Gas Analysis



part-no.	type	unit price
4677231100	Smartline lenght 3m 230VAC, 180W, IP54, max. 120°C, self-regulating heated 120°C, connecting ends on both sides ø6, gas wetted parts: 1.4571/1.4404/PTFE/Viton	2.189,00 €
4677231200	Smartline lenght 3m 230VAC, 180W, IP54, max. 120°C, self-regulating heated 120°C, connecting ends ø6, Quick Lock female, gas wetted parts: 1.4571/1.4404/1.4305/PTFE/Viton	2.532,00 €
4677232100	Smartline lenght 3m 230VAC, 300W, IP54, PT100, max. 180°C, external temperature controller required, connecting ends on both sides ø6, gas wetted parts: 1.4571/1.4404/PTFE/Viton	2.282,00 €
4677232200	Smartline lenght 3m 230VAC, 300W, IP54, PT100, max. 180°C, external temperature controller required, connecting ends ø6, Quick Lock female, gas wetted parts: 1.4571/1.4404/1.4305/PTFE/Viton	2.628,00 €
4677251100	Smartline lenght 5m 230VAC, 300W, IP54, max. 120°C, self-regulating heated 120°C, connecting ends on both sides ø6, gas wetted parts: 1.4571/1.4404/PTFE/Viton	2.527,00 €
4677251200	Smartline lenght 5m 230VAC, 300W, IP54, max. 120°C, self-regulating heated 120°C, connecting ends ø6, Quick Lock female, gas wetted parts: 1.4571/1.4404/1.4305/PTFE/Viton	2.873,00 €
4677252100	Smartline length 5m 230VAC, 500W, IP54, PT100, max. 180°C, external temperature controller required, connecting ends on both sides ø6, gas wetted parts: 1.4571/1.4404/PTFE/Viton	2.623,00 €
4677252200	Smartline lenght 5m 230VAC, 500W, IP54, PT100, max. 180°C, external temperature controller required, connecting ends ø6, Quick Lock female, gas wetted parts: 1.4571/1.4404/1.4305/PTFE/Viton	2.969,00 €

part-no.	type	unit price
46770070	Case for Smartline-probe and accessories Dimensions[mm]: 575x470x205	559,00 €

7.2.3 Sampling tubes / filter elements

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 €
467700030500	Smartline mounting cone for holes ø20-60, connection ø6 sample tube ø12 L=500, material: stainless steel	319,00 €
467700060500	Smartline mounting-plug conic for holes ø20-60, connection ø6 sample tube ø12 L=500, material: Hastelloy/stainless steel	622,00 €
462220010500	Sample tube 01, L=500mm tube ø12x2 with G3/4 connector material stainless steel 1.4571 up to 600 °C	204,00 €
462220060500	Sample tube 06, L=500mm Hastelloy C4 tube ø12x1, with G3/4 connector made of 1.4571, up to 400 °C	506,00 €
462220040500	Sample tube 08, L=500mm Inconel 600 tube ø21,3x2,77 with G 3/4 connector made of 1.4571 tube up to 1050 °C	626,00 €

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part-no.	type	unit price
7.2.4 Mounting accessories		
46770004	Smartline mounting-plug R2 connection ϕ 6 material 1.4571/1.4401	173,00 €
46770001	Smartline mounting flange DN65 PN6 material 1.4571/1.4401 incl. flange gasket and screws	248,00 €
46770002	Smartline mounting flange ANSI DN3"-150 material 1.4571/1.4401 incl. flange gasket	335,00 €
46770005	Smartline mounting bracket with 2m chain material: EPDM/steel galvanized	171,00 €
46770060	Smartline T-fitting with pipe socket ϕ 6 for calibration gas material: 1.4401	120,00 €
46770050	Smartline insulation sleeve for T-fitting ϕ 6 silicone with with velcro	59,00 €
467700202	Gasket set for Smartline filter sintered stainless steel material: Viton	14,00 €
467700302	Gasket set for Smartline filter element ceramic material: Viton	14,00 €
9146100267	Socket, PG 9, with VDE, SEV, UL certification number of poles 6+PE RD24 Power Serien 692/693	39,00 €
467707	Smartline O-ring for screw cap 36x2 viton	11,00 €

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Gas Analysis



part-no.	type	unit price
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7.3 Portable gas conditioning systems

7.3.1 PCS.base

Part no.	CSPB1				0	0
Moisture detector						
0					No	
1					Yes	
Flow meter						
0					No	
1					Yes	
Condensate drain						
0					Condensate trap*	
1					Condensate pump 115 V	
2					Condensate pump 230 V	
Part no.	CSPB1				0	0

*When selecting the condensate trap the system can be operated at a 110-260 V voltage range.

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Gas Analysis



part-no.	type	unit price
CSPB100000	PCS.base - Portable conditioning system Voltage: 110-260 VAC, 50/60 Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Condensate trap - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - - -	2.514,00 €
CSPB110000	PCS.base - Portable conditioning system Voltage: 110-260 VAC, 50/60 Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Condensate trap - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - Moisture detector FF-3-N	2.676,00 €
CSPB101000	PCS.base - Portable conditioning system Voltage: 110-260 VAC, 50/60 Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Condensate trap - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - Flowmeter with needle valve	2.717,00 €

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Gas Analysis



part-no.	type	unit price
CSPB111000	PCS.base - Portable conditioning system Voltage: 110-260 VAC, 50/60 Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Condensate trap - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - Flowmeter with needle valve - Moisture detector FF-3-N	2.876,00 €
CSPB100100	PCS.base - Portable conditioning system Voltage: 115V/60Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - Condensate pump CP single	2.773,00 €
CSPB101100	PCS.base - Portable conditioning system Voltage: 115V/60Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - Flowmeter with needle valve - Condensate pump CP single	3.252,00 €

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Gas Analysis



part-no.	type	unit price
CSPB110100	PCS.base - Portable conditioning system Voltage: 115V/60Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - Moisture detector FF-3-N - Condensate pump CP single	3.212,00 €
CSPB111100	PCS.base - Portable conditioning system Voltage: 115V/60Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - Flowmeter with needle valve - Moisture detector FF-3-N - Condensate pump CP single	3.412,00 €
CSPB100200	PCS.base - Portable conditioning system Voltage: 230V/50Hz Basic configuration- consisting of: - Carrying bag (system in bag - pre-installed) - Sample gas cooler TC-Mini with controlling - Filter AGF-FE-1 - Sample gas pump - Condensate vessel Additional configuration: - Condensate pump CP single	2.773,00 €

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Gas Analysis



part-no.	type	unit price
CSPB101200	<p>PCS.base - Portable conditioning system Voltage: 230V/50Hz</p> <p>Basic configuration- consisting of:</p> <ul style="list-style-type: none">- Carrying bag (system in bag - pre-installed)- Sample gas cooler TC-Mini with controlling- Filter AGF-FE-1- Sample gas pump- Condensate vessel <p>Additional configuration:</p> <ul style="list-style-type: none">- Flowmeter with needle valve- Condensate pump CP single	3.252,00 €
CSPB110200	<p>PCS.base - Portable conditioning system Voltage: 230V/50Hz</p> <p>Basic configuration- consisting of:</p> <ul style="list-style-type: none">- Carrying bag (system in bag - pre-installed)- Sample gas cooler TC-Mini with controlling- Filter AGF-FE-1- Sample gas pump- Condensate vessel <p>Additional configuration:</p> <ul style="list-style-type: none">- Moisture detector FF-3-N- Condensate pump CP single	3.212,00 €
CSPB111200	<p>PCS.base - Portable conditioning system Voltage: 230V/50Hz</p> <p>Basic configuration- consisting of:</p> <ul style="list-style-type: none">- Carrying bag (system in bag - pre-installed)- Sample gas cooler TC-Mini with controlling- Filter AGF-FE-1- Sample gas pump- Condensate vessel <p>Additional configuration:</p> <ul style="list-style-type: none">- Flowmeter with needle valve- Moisture detector FF-3-N- Condensate pump CP single	3.412,00 €

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7.3.2 PCS.smart

Part no.	CSP	S	1	X	3	1	X	X	X	1	X	X	X	0	X	X	Price	Total
Product characteristic																		
				1													115 V AC	4.146,00 €
				2													230 V AC	4.146,00 €
Heat exchanger																		
				3													PVDF	0,00 €
Filter																		
				1													Panel filter, AGF-FE-4	0,00 €
Moisture detector																		
				0													without moisture detector	0,00 €
				1													with moisture detector	307,00 €
Sample gas pump and flow meter																		
				0	0												none	0,00 €
				0	3												without P1, 1x flow meter with needle valve	314,00 €
				2	0												P1 with bypass, without flow meter	393,00 €
				2	1												P1 with bypass and 1x flow meter	703,00 €
				2	4												P1 with bypass and 2x flow meter with needle valve ¹⁾	1.128,00 €
				2	5												P1 with bypass, 1x flow meter + 1x flow meter with needle valve	1.091,00 €
Condensate pump																		
				1													CPsingle with angled adapter	0,00 €
Gas inlet																		
				0													Screw connection, metric, PVDF, DN 4/6 ²⁾	0,00 €
				1													Screw connection, US, PVDF, 1/4" / 1/6" ²⁾	0,00 €
				2													Screw connection, metric, stainless steel, 6 mm ³⁾	59,00 €
				3													Screw connection, US, stainless steel, 1/4" ³⁾	59,00 €
				4													Quick-coupler with counter piece, metric, PVDF, DN 4/6 ²⁾	116,00 €
				5													Quick-coupler with counter piece, US, PVDF, 1/4" / 1/6" ²⁾	116,00 €
				6													Quick-Lock ²⁾	238,00 €
Gas outlet																		
				0													Screw connection, metric, PVDF, DN 4/6 ²⁾	0,00 €
				1													Screw connection, US, PVDF, 1/4" / 1/6" ²⁾	0,00 €
				2													Screw connection, metric, stainless steel, 6 mm ³⁾	59,00 €
				3													Screw connection, US, stainless steel, 1/4" ³⁾	59,00 €
				4													Quick-coupler with counter piece, metric, PVDF, DN 4/6 ²⁾	116,00 €
				5													Quick-coupler with counter piece, US, PVDF, 1/4" / 1/6" ²⁾	116,00 €
				6													Quick-Lock ²⁾	238,00 €
heated line																		
				0	0												none	0,00 €
				2	0												heated line	384,00 €
Status outputs																		
				0													status output only	0,00 €
				1													Analogue output option, add-on	48,00 €
Trolley																		
				0													No	0,00 €
				1													Yes	211,00 €
Part no.	CSP	S	1		3	1				1				0			Catalogue price	

¹⁾ Version 2 x SM with needle valve includes an additional bypass gas outlet. The connection corresponds with the selected gas outlet configuration.

²⁾ Maximum medium temperature 140 °C.

³⁾ Recommended for connecting a heated line.

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7.3.3 PCS.smart+ (washout-optimised version)

Part no.	CSP	S	2	8	1	2	0	Price	Total
Product characteristic									
1								115 V AC	4.323,00 €
2								230 V AC	4.323,00 €
Heat exchanger									
8								PVDF	0,00 €
Filter									
1								Panel filter, AGF-FE-4	0,00 €
Moisture detector									
0								without moisture detector	0,00 €
1								with moisture detector	307,00 €
Sample gas pump and flow meter									
0	0							none	0,00 €
0	3							without P1, 1x flow meter with needle valve	314,00 €
2	0							P1 with bypass, without flow meter	393,00 €
2	1							P1 with bypass and 1x flow meter	703,00 €
2	4							P1 with bypass and 2x flow meter with needle valve ¹⁾	1.128,00 €
2	5							P1 with bypass, 1x flow meter + 1x flow meter with needle valve	1.091,00 €
Condensate pump									
2								2x CPsingle with angled adapter	0,00 €
Gas inlet									
0								Screw connection, metric, PVDF, DN 4/6 ²⁾	0,00 €
1								Screw connection, US, PVDF, 1/4" / 1/6" ²⁾	0,00 €
2								Screw connection, metric, stainless steel, 6 mm ³⁾	59,00 €
3								Screw connection, US, stainless steel, 1/4" ³⁾	59,00 €
4								Quick-coupler with counter piece, metric, PVDF, DN 4/6 ²⁾	116,00 €
5								Quick-coupler with counter piece, US, PVDF, 1/4" / 1/6" ²⁾	116,00 €
6								Quick-Lock ²⁾	238,00 €
Gas outlet									
0								Screw connection, metric, PVDF, DN 4/6 ²⁾	0,00 €
1								Screw connection, US, PVDF, 1/4" / 1/6" ²⁾	0,00 €
2								Screw connection, metric, stainless steel, 6 mm ³⁾	59,00 €
3								Screw connection, US, stainless steel, 1/4" ³⁾	59,00 €
4								Quick-coupler with counter piece, metric, PVDF, DN 4/6 ²⁾	116,00 €
5								Quick-coupler with counter piece, US, PVDF, 1/4" / 1/6" ²⁾	116,00 €
6								Quick-Lock ²⁾	238,00 €
heated line									
0	0							none	0,00 €
2	0							heated line	384,00 €
Status outputs									
0								status output only	0,00 €
1								Analogue output option, add-on	48,00 €
Trolley									
0								No	0,00 €
1								Yes	211,00 €
Part no.	CSP	S	2	8	1	2	0	Catalogue price	

¹⁾ Version 2 x SM with needle valve includes an additional bypass gas outlet. The connection corresponds with the selected gas outlet configuration.

²⁾ Maximum medium temperature 140 °C.

³⁾ Recommended for connecting a heated line.

<i>part-no.</i>	<i>type</i>	<i>unit price</i>
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7.4 SCS modular sample conditioning systems

The following items are just for orientation

Example 1	SCS 100 Modular sample conditioning system 19" rack comprising: compressor gas cooler with stainless steel heat exchanger, 6 calibration gas ports, blowback port, 115 V 60Hz controller, flow meters, panel filter, peristaltic pump, pressure gauge, Teflon Rohr, nominal flow 350 l/h	8.000,00 €
Example 2	SCS 102 Modular sample conditioning system 19" rack comprising: compressor gas cooler with stainless steel heat exchanger, moisture detector, 2/2 and 3/2 way solenoid valves, 230 V 50 Hz controller, flow meters with flow controller, panel filter, peristaltic pump, DN 4/6 bulkhead unions	8.600,00 €
Example 3	SCS 200 Modular sample conditioning system 19" rack comprising: compressor gas cooler with dual stream stainless steel heat exchanger, 2 cal. gas ports, 230 V 50 Hz controller, flow meters, panel filters, peristaltic pumps, nominal flow 2x 350 l/h	9.000,00 €
Example 4	SCS 300 Modular sample conditioning system 19" rack comprising: thermo electric gas cooler with stainless steel heat exchanger, peristaltic acid metering pump, heated input block, 230 V 50 Hz controller, flow meters, panel filter, peristaltic pump, 2 output paths, nominal flow 350 l/h	8.500,00 €
Example 5	SCS 500 Sample conditioning system 19" rack comprising: compressor gas cooler with stainless steel heat exchanger, sample gas pump, moisture detector, 230 V 50 Hz controller, flow meters, panel filter, peristaltic pump, DN 4/6 bulk head unions, nominal flow 500 l/h	8.100,00 €
Example 6	SCS 501 Sample conditioning system 19" rack comprising: compressor gas cooler with dual stream glass heat exchanger, peristaltic acid metering pump, sample gas pumps, moisture detectors, 230 V 50 Hz controller, flow meters, panel filters, peristaltic pumps, DN 4/6 bulk head unions	6.600,00 €

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