

PRICE LIST 2015





Symbols

●	Option available
S	Standard / Extent of delivery
○	Alternative for standard or extent of delivery without extra charge

General changes

List "Spare Parts with Accessory Pricing" added

What is new?

Semi-Hermetic Reciprocating Compressors

2MME-07K .. 2DME-7K

2MTE-4K .. 2KTE-7K

4FE-5.F1Y .. 4NE-20.F4Y

Compressors for CO₂ - Subcritical Applications and high Standstill Pressures

Compressors for CO₂ - Transcritical Applications

VARISPEED Compressors with Oil Pump Lubrication

NEW Products

NEW Products

Replace Previous Versions

Availability from 01.04.2015

On request

On request

On request

Semi-Hermetic Units

LH32E/2KES-05Y .. LH135E/4NES-20Y // LH114E/44FES-6Y .. LH135E/44CES-18Y

LH135E/4JE-15Y .. LH135E/6HE-28Y

LH104E/S4T-5.2Y .. LH135E/S6G-25.2Y

LH33E/2KES-05Y .. LH135E/44DES-10Y

LH32E/FS36 .. LH135E/F302H // LH104E/F152H .. LH135E/F302H

LH265E/6JE-25Y .. LH265E/6GE-40Y

LH265E/S6G-25.2Y & LH265E/S6F-30.2Y

LHV6/4FE-5.F1Y .. LHV6/4CE-9.F3Y

LHV7E/4DE-7.F3Y .. LHV7E/4NE-14.F3Y

Air-cooled LHE with ECOLINE

Air-cooled LHE with ECOLINE

Air-cooled LHE with 2-Stage Compressors

Air-cooled - High Ambient LHE with ECOLINE

Air-cooled LHE without Compressor

Air-cooled - High Ambient LHE with ECOLINE

Air-cooled - High Ambient LHE with 2-Stage Compressors

ECOSTAR LHV6 with VARISPEED Compressors with Oil Pump Lubrication

ECOSTAR LHV7 with VARISPEED Compressors with Oil Pump Lubrication

Replace Previous Versions

Replace Previous Versions

Replace Previous Versions

Replace Previous Versions

Replace Previous Versions

NEW Products

NEW Products

Replace Previous Versions

NEW Products

Available

Available

Available

Available

Available

On request

On request

On request

On request

Open Drive Screw Compressors

OSKB8581 & OSKB8591

OSKAB8581 & OSKAB8591

Open Drive Screw Compressors for Booster Applications

Open Drive Screw Compressors for Booster Applications with Ammonia

NEW Products

NEW Products

Available

Available

Oil Separators for Screw Compressors

OAHC65051A

Combined Oil Separators for Ammonia (horizontal Design)

NEW Product

On request



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Item	ECOLINE - Single Compressors ECOLINE - Tandem Compressors		Product Series							Additional Information
			CE1S 2KES .. 2FES	CE2S 2EES .. 2CES 22EES .. 22CES	CE3S 4FES .. 4CES 44FES .. 44CES	CE4S 4VES .. 4NES 44VES .. 44NES	BE5 4JE .. 4FE 44JE .. 44FE	BE6 6JE .. 6FE 66JE .. 66FE	CE8 8GE .. 8FE	
	Extent of Delivery									
1	Motor with PTC Sensors	Star/Delta Type Y/Δ	S	S	S					220-240 V-3-50 Hz-Δ 380-420 V-3-50 Hz-Y 440-480 V-3-60 Hz-Y
2		Part Winding Type				S	S	S	S	380-420(400*) V-3-50 Hz 440-480(460*) V-3-60 Hz * valid for 6FE-50, 66FE-100
3	Connection Suction Line	Shut-off Valve	S	S	S	S	S	S	S	
4	Connection Discharge Line	Shut-off Valve	S	S	S	S	S	S	S	2x for Tandem Types
5	Oil Charge	BSE32 (Ester Oil)	S	S	S	S	S	S	S	
6	Sight Glass	-	S	S	S	S	S	S	S	
7	Motor Protection Device	SE-B1	S	S	S	S				for 230 V-1-50/60 Hz
8		SE-B2					S	S	S	
9	Terminal Box, Plastic	Enclosure Class IP65	S	S	S	S				
10	Terminal Box, Aluminium or Sheet Steel	Enclosure Class IP54					S	S	S	
11	Pressure Relief Valve	-					S	S	S	
12	Bearing Cover for opto-electronic Oil Level Monitoring OLC-K1	for simplified Retrofitting			S	S				
13	Vibration Dampers	Elastomer Damper Elements	S	S	S	S ⁽¹⁾	S ⁽¹⁾	S ⁽¹⁾		(1) Tandem Types
14		Spring Dampers				S ⁽²⁾	S ⁽²⁾	S ⁽²⁾	S	(2) Standard Types

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Item	ECOLINE Compressors		Series	BE5												BE6												CE8			
			Type	4JE-13Y	4JE-15Y	4JE-22Y	4HE-15Y	4HE-18Y	4HE-25Y	4GE-20Y	4GE-23Y	4GE-30Y	4FE-25Y	4FE-28Y	4FE-35Y	6JE-22Y	6JE-25Y	6JE-33Y	6HE-25Y	6HE-28Y	6HE-35Y	6GE-30Y	6GE-34Y	6GE-40Y	6FE-40Y	6FE-44Y	6FE-50Y	8GE-50Y	8FE-60Y	8FE-70Y	
			Price EUR	6.904,-	7.268,-	7.646,-	6.920,-	7.285,-	7.667,-	7.775,-	8.183,-	8.527,-	8.085,-	8.489,-	8.844,-	8.548,-	8.997,-	10.350,-	8.811,-	9.275,-	10.648,-	10.117,-	10.648,-	11.379,-	12.274,-	12.920,-	13.271,-	15.883,-	16.250,-	16.818,-	17.655,-
Accessories		Additional Information																													
1	Motor for Special Voltage	available Motors see Technical Information KT-410	➔	345,-	363,-	382,-	346,-	364,-	383,-	389,-	409,-	426,-	404,-	424,-	442,-	427,-	450,-	518,-	441,-	464,-	532,-	506,-	532,-	569,-	614,-	646,-	664,-	794,-	813,-	841,-	883,-
2	Ester Oil Charge BSE32	for HFC Refrigerants	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
3	Ester Oil Charge BSE55	for HFC Refrigerants at high Condensing Temperatures; tc > 70 °C	--			O			O			O			O			O			O		O				O		O		O
4	Oil Charge B5.2	"Y" Compressor Designation omitted	--		O	O			O	O		O		O	O		O	O		O	O		O			O		O	O	O	O
5	Differential Oil Pressure Switch MP54	230/115 V-1-50/60 Hz	241,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6	Differential Oil Pressure Switch Delta-PII	115 .. 230 V-1-50/60 Hz	218,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7	Crankcase Heater	140 W, 230 V	78,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8		140 W, 115 V	78,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9		140 W, 24 V	78,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10		140 W, 400 V	78,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
11	Motor Protection Device	SE-B2 for 230 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
12		SE-B2 for 115 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
13		SE-B2 for 24 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
14		SE-B2 for 42 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
15		SE-B2 for 24 V-DC	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
16	Additional Fan	230/400 V-3-50/60 Hz 265/460 V-3-60 Hz	427,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
17	Discharge Gas Temperature Sensor	PTC 140 (included in SU)	140,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
18	Bridges for Direct On Line Start	-	26,-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	●	●	●	●

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Item	ECOLINE Tandem Compressors		Series	CE2S						CE3S						CE4S												
			Type	22EES-4Y	22EES-6Y	22DES-4Y	22DES-6Y	22CES-6Y	22CES-8Y	44FES-6Y	44FES-10Y	44EES-8Y	44EES-12Y	44DES-10Y	44DES-14Y	44CES-12Y	44CES-18Y	44VES-12Y	44VES-14Y	44VES-20Y	44TES-16Y	44TES-18Y	44TES-24Y	44PES-20Y	44PES-24Y	44NES-24Y	44NES-28Y	44NES-40Y
			Price EUR	4.091,-	4.422,-	4.258,-	4.447,-	4.422,-	4.621,-	4.808,-	5.328,-	4.928,-	5.666,-	6.224,-	6.546,-	6.849,-	7.121,-	8.345,-	8.784,-	9.142,-	8.567,-	9.020,-	9.415,-	9.307,-	9.797,-	10.229,-	10.494,-	11.046,-
	Accessories	Additional Information																										
19	Start Unloader (SU), Cylinder Heads with Control Valve (2x) PTC 140 included (2x)	Coil for 230 V-1-50/60 Hz	1.050,-																									
20		Coil for 115 V-1-50/60 Hz	1.154,-																									
21		Coil for 48 V-1-50/60 Hz	1.154,-																									
22		Coil for 42 V-1-50/60 Hz	1.154,-																									
23		Coil for 24 V-1-50/60 Hz	1.154,-																									
24		Coil for 115 V-DC	1.154,-																									
25		Coil for 48 V-DC	1.154,-																									
26		Coil for 24 V-DC	1.154,-																									
27	Capacity Control (CRII), Cylinder Head with Control Valve (1x) Possible Residual Capacity see Technical Information KT-101	Coil for 230 V-1-50/60 Hz	345,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
28		Coil for 115 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
29		Coil for 48 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30		Coil for 42 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
31		Coil for 24 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
32		Coil for 115 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33		Coil for 48 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
34		Coil for 24 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35	Start Unloader (SU), Cylinder Heads prepared (2x)	without Control Valve, without PTC Sensor	250,-														•	•	•	•	•	•	•	•	•	•	•	•
36	Capacity Control (CRII), Cylinder Head prepared (1x)	without Control Valve	85,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
37	Control Valve (1x) for SU and CRII, Cylinder Head prepared	Coil for 230 V-1-50/60 Hz	260,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
38		Coil for Special Voltage (see SU or CRII with Control Valve)	312,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
39	Oil Service Valve (2x)	-	148,-														•	•	•	•	•	•	•	•	•	•	•	•
40	CIC-System (2x)	Controlled Injection Cooling for R407F, R407A, R22	1.732,-															•			•					•		
41	Terminal Box, Aluminium (2x)	Protection Class IP66	128,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42	Compressor Frame (1x)	-	318,-														•	•	•	•	•	•	•	•	•	•	•	•

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Item	2-Stage Compressors - for Low Temperature Applications		Product Series			Additional Information
			BS4 S4T.., S4N..	BS5 S4G..	BS6 S6J .. S6F S66J .. S66F	
	Extent of Delivery					
1	Motor with PTC Sensors	Part Winding Type	S	S	S	380-420 V-3-50 Hz 440-480 V-3-60 Hz
2	Connection Suction Line	Shut-off Valve	S	S	S	
3	Connection Discharge Line	Shut-off Valve	S	S	S	2x for Tandem Types
4	Oil Charge	BSE32 (Ester Oil)	S	S	S	
5	Sight Glass	-	S	S	S	
6	Motor Protection Device	SE-B2	S	S	S	
7	Terminal Box, Aluminium	Enclosure Class IP54	S	S	S	
8	Pressure Relief Valve	-			S	
9	Vibration Dampers	Spring Dampers	S	S	S	Tandem: with Elastomer Damper Elements
10	Components for Interstage Cooling	Discharge Gas Temperature Sensor, Liquid Injection Valve, Sight Glass, Filter Drier, Solenoid Valve	S	S	S	Information about Refrigerant (R404A, R407F or R22) and Application Range required for Order Processing

Item	2-Stage Compressors - for Low Temperature Applications		Series	2-Stage						2-Stage Tandems				
				BS4		BS5	BS6			BS6				
			Type	S4T-5.2Y	S4N-8.2Y	S4G-12.2Y	S6J-16.2Y	S6H-20.2Y	S6G-25.2Y	S6F-30.2Y	S66J-32.2Y	S66H-40.2Y	S66G-50.2Y	S66F-60.2Y
				Price EUR	5.958,-	6.569,-	9.102,-	11.331,-	11.621,-	13.018,-	15.331,-	23.300,-	24.587,-	27.379,-
Accessories		Additional Information												
1	Motor for Special Voltage	available Motors see Technical Information KT-410	➔	298,-	328,-	455,-	567,-	581,-	651,-	767,-	1.165,-	1.229,-	1.369,-	1.601,-
2	Ester Oil Charge BSE32	for HFC Refrigerants	--	S	S	S	S	S	S	S	S	S	S	S
3	Oil Charge B5.2	"Y" Compressor Designation omitted	--	O	O	O	O	O	O	O	O	O	O	O
4	Differential Oil Pressure Switch MP54	230/115 V-1-50/60 Hz	241,-	●	●	●	●	●	●	●				
5	Differential Oil Pressure Switch MP54 (2x)	230/115 V-1-50/60 Hz	482,-								●	●	●	●
6	Differential Oil Pressure Switch Delta-PII	115 .. 230 V-1-50/60 Hz	218,-	●	●	●	●	●	●	●				
7	Differential Oil Pressure Switch Delta-PII (2x)	115 .. 230 V-1-50/60 Hz	436,-								●	●	●	●
8	Crankcase Heater	100 W, 230 V	74,-	●	●									
9		100 W, 115 V	74,-	●	●									
10		100 W, 400 V	74,-	●	●									
11		140 W, 230 V	78,-			●	●	●	●	●				
12		140 W, 115 V	78,-			●	●	●	●	●				
13		140 W, 24 V	78,-			●	●	●	●	●				
14		140 W, 400 V	78,-			●	●	●	●	●				
15	Crankcase Heater (2x)	140 W, 230 V	156,-								●	●	●	●
16		140 W, 115 V	156,-								●	●	●	●
17		140 W, 24 V	156,-								●	●	●	●
18		140 W, 400 V	156,-								●	●	●	●
19	Motor Protection Device (2x for Tandems)	SE-B2 for 230 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S
20		SE-B2 for 115 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O
21		SE-B2 for 24 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O
22		SE-B2 for 42 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O
23		SE-B2 for 24 V-DC	--	O	O	O	O	O	O	O	O	O	O	O
24	Discharge Gas Temperature Sensor	PTC 140 (included in SU)	140,-	●	●	●	●	●	●	●				
25	Discharge Gas Temperature Sensor (2x)	PTC 140 (included in SU)	280,-								●	●	●	●
26	Oil Service Valve	-	74,-	●	●	●	●	●	●	●				
27	Oil Service Valve (2x)	-	148,-								●	●	●	●
28	Conversion Kit for Marine Application	-	472,-	●	●									
29			826,-			●	●	●	●	●				



Item	2-Stage Compressors - for Low Temperature Applications		Series	2-Stage						2-Stage Tandems				
				BS4		BS5	BS6			BS6				
			Type	S4T-5.2Y	S4N-8.2Y	S4G-12.2Y	S6J-16.2Y	S6H-20.2Y	S6G-25.2Y	S6F-30.2Y	S66J-32.2Y	S66H-40.2Y	S66G-50.2Y	S66F-60.2Y
				Price EUR	5.958,-	6.569,-	9.102,-	11.331,-	11.621,-	13.018,-	15.331,-	23.300,-	24.587,-	27.379,-
	Accessories	Additional Information												
30	Liquid Subcooler - assembled	Liquid Subcooler; Liquid Injection Valve sized for Operation with Subcooler (complete with Piping; Components assembled and insulated)	1.228,-	●	●	●								
31			1.512,-				●	●	●	●				
32			3.024,-								●	●	●	●
33	Liquid Subcooler - enclosed	Liquid Subcooler; Liquid Injection Valve sized for Operation with Subcooler (Piping Elements and Insulation not included; Kit not assembled)	635,-	●	●	●								
34			744,-				●	●	●	●				
35			1.488,-								●	●	●	●
36	Electronic Interstage Cooling CIC System	CIC Controle Module; Temperature Sensors and Pulse operated Valve (for R407F, R407A, R22)	--	○	○	○	○	○	○	○				
37	Electronic Interstage Cooling CIC System (2x)	CIC Controle Module; Temperature Sensors and Pulse operated Valve (for R407F, R407A, R22)	--								○	○	○	○
38	Terminal Box, Aluminium	Protection Class IP66	254,-	●	●	●	●	●	●	●				
39	Terminal Box, Aluminium (2x)	Protection Class IP66	508,-								●	●	●	●



A large rectangular area filled with a light gray dot grid pattern, intended for handwritten notes.



Item	CO ₂ Compressors		Product Series									Additional Information	
			for subcritical Applications					for transcritical Applications					
			"SL" Series				for high Standstill Pressures						
			CH1 2NSL .. 2FSL	CH2 2ESL .. 2CSL	CH3 4FSL .. 4CSL	CH4 4VSL .. 4NSL	CME1 2MME .. 2FME	CME2 2EME .. 2DME	CKH2 2MTE .. 2KTE	CKH3 4PTC .. 4KTC	CKH4 4JTC .. 4CTC		CKH5 6FTE .. 6CTE
Extent of Delivery												Availability and Prices on Request	
1	Motor with PTC Sensors	Star/Delta Type Y/Δ	S	S	S		S	S	S	S			220-240 V-3-50 Hz-Δ 380-420 V-3-50 Hz-Y 440-480 V-3-60 Hz-Y
2		Part Winding Type				S					S		380-420 V-3-50 Hz 440-480 V-3-60 Hz
3	Crankcase Heater	-						S	S	S			200 .. 260 V, PTC
4	Connection Suction Line	Blind Flange						S	S	S			
5		Shut-off Valve	S	S	S	S	S	S					
6	Connection Discharge Line	Blind Flange						S	S	S			
7		Shut-off Valve	S	S	S	S	S	S					
8	Oil Charge	BSE60K (Ester Oil)	S	S	S	S	S	S					
9		BSE85K (Ester Oil)							S	S	S		
10	Sight Glass	-	S	S	S	S	S	S	S	S	S		
11	Motor Protection Device	SE-B1	S	S	S	S	S	S	S	S	S		for 230 V-1-50/60 Hz
12	Terminal Box, Plastic	Enclosure Class IP65	S	S	S	S	S	S	S	S	S		
13	Bearing Cover for opto-electronic Oil Level Monitoring OLC-K1	for simplified Retrofitting			S	S							
14	Pressure Relief Valve	external, on Suction Side	S	S	S	S	S	S					
15		external, on Discharge Side							S	S	S		
16	Vibration Dampers	Elastomer Damper Elements	S	S	S	S	S	S	S	S	S		

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Item	Compressors for CO ₂ - Transcritical Applications		Series	CO ₂ - Transcritical Applications																	CKH5			Availability and Prices on Request
				CKH2			CKH3				CKH4													
			Type	2MTE-4K	2MTE-5K	2KTE-5K	2KTE-7K	4PTC-6K	4PTC-7K	4MTC-7K	4MTC-10K	4KTC-10K	4ITC-10K	4ITC-15K	4HTC-15K	4HTC-20K	4FTC-20K	4FTC-30K	4DTC-25K	4CTC-30K				
				Price EUR	5.560,-	5.729,-	5.790,-	6.025,-	6.079,-	6.326,-	6.473,-	6.843,-	7.000,-	7.546,-	7.715,-	8.005,-	8.329,-	9.333,-	10.099,-	10.427,-	11.176,-			
	Accessories	Additional Information																						
1	Motor for Special Voltage	available Motors see Technical Information KT-410	➔	278,-	286,-	290,-	301,-	304,-	316,-	324,-	342,-	350,-	377,-	386,-	400,-	416,-	467,-	505,-	521,-	559,-				
2	Ester Oil Charge BSE85K	-	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					
3	Oil Charge BSG68K (PAG)	for Applications with LP > 40 bar / HP > 120 bar	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O					
4	Opto-electronic Oil Level Monitoring OLC-K1 (mounted)	230 V-1-50/60 Hz	290,-					●	●	●	●	●	●	●	●	●	●	●	●					
5		115 V-1-50/60 Hz	290,-					●	●	●	●	●	●	●	●	●	●	●	●					
6	Crankcase Heater	0 .. 120 W – 200 .. 260 V, PTC	69,-	S	S	S	S	S	S	S	S	S												
7		0 .. 120 W – 100 .. 140 V, PTC	69,-	O	O	O	O	O	O	O	O	O												
8		0 .. 140 W – 200 .. 260 V, PTC	69,-										S	S	S	S	S	S	S					
9		0 .. 140 W – 100 .. 140 V, PTC	69,-										O	O	O	O	O	O	O					
10	Motor Protection Device	SE-B1 for 230 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					
11		SE-B1 for 115 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O					
12		SE-B1 for 24 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O					
13		SE-B1 for 42 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O					
14		SE-B1 for 24 V-DC	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O					
15	Suction Connection	Blind Flange	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					
16		Shut-off Valve D22 (for Brazing)	64,-	●	●	●	●	●	●	●	●													
17		Shut-off Valve D28 (for Brazing)	64,-										●	●	●	●	●	●	●					
18	Discharge Connection	Blind Flange	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					
19		Shut-off Valve Swagelok DN 18	350,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
20		Shut-off Valve DN 18 (for Brazing)	154,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
21		Shut-off Valve DN 10 (for Welding)	154,-	●	●	●	●	●	●	●	●													
22		Shut-off Valve DN 16 (for Welding)	154,-										●	●	●	●	●	●	●					
23	Pressure Relief Valve	Suction Side 90 bar	250,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
24		Discharge Side 148 bar	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					



A large rectangular area filled with a light gray dot grid pattern, intended for handwritten notes.



Item	ECOLINE Compressors for R290 / R1270		Product Series							Additional Information
			CEP1 2KESP .. 2FESP	CEP2 2EESP .. 2CESP	CEP3 4FESP .. 4CESP 44FESP .. 44CESP	CEP4S 4VESP .. 4NESP 44VESP .. 44NESP	BEP5 4JEP .. 4FEP	BEP6 6JEP .. 6FEP	CEP8 8GEP .. 8FEP	
	Extent of Delivery									
1	Motor with PTC Sensors	Star/Delta Type Y/Δ	S	S	S					220-240 V-3-50 Hz-Δ 380-420 V-3-50 Hz-Y 440-480 V-3-60 Hz-Y
2		Part Winding Type				S	S	S	S	380-420 (400*) V-3-50 Hz 440-480 (460*) V-3-60 Hz * for 6FEP-50P
3	Connection Suction Line	Shut-off Valve	S	S	S	S	S	S	S	
4	Connection Discharge Line	Shut-off Valve	S	S	S	S	S	S	S	2x for Tandem Types
5	Oil Charge	SHC226E (PAO Oil)	S	S	S	S	S	S	S	
6	Sight Glass	-	S	S	S	S	S	S	S	
7	Motor Protection Device packed separately, for installation in switch board	SE-B1	S	S	S	S				for 230 V-1-50/60 Hz
8		SE-B2					S	S	S	
9	Terminal Box, Plastic	Enclosure Class IP65	S	S	S	S				
10	Terminal Box, Aluminium or Sheet Steel	Enclosure Class IP54					S	S	S	
11	Pressure Relief Valve	-	S	S	S	S	S	S	S	
12	Vibration Dampers	Elastomer Damper Elements	S	S	S					
13		Spring Dampers				S	S	S	S	

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Item	ECOLINE Compressors for R290 / R1270		Series	CEP1							CEP2				CEP3				CEP4S													
			Type	2KESP-05P	2KESP-07P	2HESP-1P	2HESP-2P	2GESP-2P	2FESP-2P	2FESP-3P	2EESP-2P	2EESP-3P	2DES-2P	2DES-3P	2CESP-3P	2CESP-4P	4FESP-3P	4FESP-5P	4EESP-4P	4EESP-6P	4DES-5P	4DES-7P	4CESP-6P	4CESP-9P	4VESP-7P	4VESP-10P	4TESP-9P	4TESP-12P	4PESP-12P	4PESP-15P	4NESP-14P	4NESP-20P
			Price EUR	1.531,-	1.542,-	1.558,-	1.586,-	1.586,-	1.646,-	1.716,-	2.223,-	2.386,-	2.305,-	2.394,-	2.386,-	2.483,-	2.572,-	2.829,-	2.632,-	2.993,-	3.268,-	3.428,-	3.576,-	3.712,-	4.612,-	4.792,-	4.730,-	4.931,-	5.119,-	5.335,-	5.745,-	6.087,-
Accessories		Additional Information																														
17	Start Unloader (SU), Cylinder Head with Control Valve PTC 140 included	Coil for 230 V-1-50/60 Hz	525,-																													
18		Coil for 115 V-1-50/60 Hz	577,-																													
19		Coil for 48 V-1-50/60 Hz	577,-																													
20		Coil for 42 V-1-50/60 Hz	577,-																													
21		Coil for 24 V-1-50/60 Hz	577,-																													
22		Coil for 115 V-DC	577,-																													
23		Coil for 48 V-DC	577,-																													
24		Coil for 24 V-DC	577,-																													
25	Capacity Control (CRII), Cylinder Head with Control Valve (1x) Possible Residual Capacity see Technical Information KT-101	Coil for 230 V-1-50/60 Hz	345,-								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
26		Coil for 115 V-1-50/60 Hz	397,-									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
27		Coil for 48 V-1-50/60 Hz	397,-									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
28		Coil for 42 V-1-50/60 Hz	397,-									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
29		Coil for 24 V-1-50/60 Hz	397,-									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
30		Coil for 115 V-DC	397,-									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
31		Coil for 48 V-DC	397,-									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
32		Coil for 24 V-DC	397,-									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
33	Start Unloader (SU), Cylinder Head prepared	without Control Valve, without PTC Sensor	125,-																					•	•	•	•	•	•	•	•	
34	Capacity Control (CRII), Cylinder Head prepared (1x)	without Control Valve	85,-								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
35	Control Valve (1x) for SU and CRII, Cylinder Head prepared	Coil for 230 V-1-50/60 Hz	260,-								•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	
36		Coil for Special Voltage (see SU or CRII with Control Valve)	312,-									•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	
37	Oil Service Valve	-	74,-																					•	•	•	•	•	•	•	•	
38	Terminal Box, Aluminium	Protection Class IP66	64,-								•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	
39	Elastomer Damper Elements	Replace Spring Dampers	--																					○	○	○	○	○	○	○	○	

Item	ECOLINE Compressors for R290 / R1270		Series	BEP5								BEP6								CEP8			
			Type	4JEP-15P	4JEP-22P	4JEP-18P	4JEP-25P	4JEP-23P	4JEP-30P	4JEP-28P	4JEP-35P	6JEP-25P	6JEP-33P	6JEP-28P	6JEP-35P	6JEP-34P	6JEP-40P	6JEP-44P	6JEP-50P	8JEP-50P	8JEP-60P	8JEP-60P	8JEP-70P
			Price EUR	7.268,-	7.646,-	7.285,-	7.667,-	8.183,-	8.527,-	8.489,-	8.844,-	8.997,-	10.349,-	9.274,-	10.648,-	10.648,-	11.379,-	12.920,-	13.271,-	15.883,-	16.250,-	16.818,-	17.655,-
	Accessories	Additional Information																					
1	Motor for Special Voltage	available Motors see Technical Information KT-410	➔	363,-	382,-	364,-	383,-	409,-	426,-	424,-	442,-	450,-	517,-	464,-	532,-	532,-	569,-	646,-	664,-	794,-	813,-	841,-	883,-
2	Differential Oil Pressure Switch MP55	without Timer Relais; 230 V-1-50/60 Hz	523,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3	Differential Oil Pressure Switch Delta-PII Reed	without Evaluation Electronics	218,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	Crankcase Heater	140 W, 230 V	78,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5		140 W, 115 V	78,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6		140 W, 24 V	78,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7		140 W, 400 V	78,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	Motor Protection Device (not mounted)	SE-B2 for 230 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
9		SE-B2 for 115 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
10		SE-B2 for 24 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
11		SE-B2 for 42 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
12		SE-B2 for 24 V-DC	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
13	Additional Fan	230/400 V-3-50/60 Hz 265/460 V-3-60 Hz	427,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
14	Discharge Gas Temperature Sensor	PTC 140 (included in SU)	140,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15	Bridges for Direct On Line Start	-	26,-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	•	•	•	•
16	Start Unloader (SU), Cylinder Head with Control Valve PTC 140 included	Coil for 230 V-1-50/60 Hz	525,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
17		Coil for 115 V-1-50/60 Hz	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
18		Coil for 48 V-1-50/60 Hz	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
19		Coil for 42 V-1-50/60 Hz	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
20		Coil for 24 V-1-50/60 Hz	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
21		Coil for 115 V-DC	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
22		Coil for 48 V-DC	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
23		Coil for 24 V-DC	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				



Item	ECOLINE Compressors for R290 / R1270		Series	BEP5								BEP6								CEP8			
			Type	4JEP-15P	4JEP-22P	4HEP-18P	4HEP-25P	4GEP-23P	4GEP-30P	4FEP-28P	4FEP-35P	6JEP-25P	6JEP-33P	6HEP-28P	6HEP-35P	6GEP-34P	6GEP-40P	6FEP-44P	6FEP-50P	8GEP-50P	8GEP-60P	8FEP-70P	
			Price EUR	7.268,-	7.646,-	7.285,-	7.667,-	8.183,-	8.527,-	8.489,-	8.844,-	8.997,-	10.349,-	9.274,-	10.648,-	10.648,-	11.379,-	12.920,-	13.271,-	15.883,-	16.250,-	16.818,-	17.655,-
	Accessories	Additional Information																					
24	Capacity Control (CRII), Cylinder Head with Control Valve (1x) Possible Residual Capacity see Technical Information KT-101	Coil for 230 V-1-50/60 Hz	345,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
25		Coil for 115 V-1-50/60 Hz	397,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
26		Coil for 48 V-1-50/60 Hz	397,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
27		Coil for 42 V-1-50/60 Hz	397,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
28		Coil for 24 V-1-50/60 Hz	397,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
29		Coil for 115 V-DC	397,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
30		Coil for 48 V-DC	397,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
31		Coil for 24 V-DC	397,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
32	Start Unloader (SU), Cylinder Head prepared	without Control Valve, without PTC Sensor	125,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
33	Capacity Control (CRII), Cylinder Head prepared (1x)	without Control Valve	85,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
34	Control Valve (1x) for SU and CRII, Cylinder Head prepared	Coil for 230 V-1-50/60 Hz	260,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
35		Coil for Special Voltage (see SU or CRII with Control Valve)	312,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
36	Oil Service Valve	not applicable with Oil & Gas Equalizing Fittings	74,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
37	Oil & Gas Equalizing Fittings	not applicable with Oil Service Valve	64,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
38	Conversion Kit for Marine Application	-	630,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
39	Terminal Box, Aluminium	Protection Class IP66	254,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
40	Water-cooled Cylinder Heads	-	165,-	●	●	●	●	●	●	●													
41			249,-									●	●	●	●	●	●	●					
42	Water-cooled Cylinder Heads - for Seawater	coated Cylinder Heads	393,-	●	●	●	●	●	●	●													
43			590,-									●	●	●	●	●	●	●					
44	Elastomer Damper Elements	Replace Spring Dampers	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

Item	ECOLINE Tandem Compressors for R290 / R1270		Series	CEP3								CEP4S							
			Type	44FESP-6P	44FESP-10P	44FESP-8P	44FESP-12P	44DESP-10P	44DESP-14P	44CESP-12P	44CESP-18P	44VESP-14P	44VESP-20P	44TESP-18P	44TESP-24P	44PESP-24P	44PESP-30P	44NESP-28P	44NESP-40P
			Price EUR	5.145,-	5.658,-	5.265,-	5.986,-	6.537,-	6.855,-	7.151,-	7.424,-	9.234,-	9.595,-	9.472,-	9.871,-	10.250,-	10.682,-	11.501,-	12.188,-
	Accessories	Additional Information																	
1	Motor for Special Voltage	available Motors see Technical Information KT-410	➔	257,-	283,-	263,-	299,-	327,-	343,-	358,-	371,-	462,-	480,-	474,-	494,-	513,-	534,-	575,-	609,-
2	Crankcase Heater (2x)	0 .. 120 W – 200 .. 260 V, PTC	138,-	•	•	•	•	•	•	•	•	•							
3		0 .. 120 W – 100 .. 140 V, PTC	138,-	•	•	•	•	•	•	•	•								
4		0 .. 120 W – 400 V, PTC	138,-	•	•	•	•	•	•	•	•								
5		0 .. 140 W – 200 .. 260 V, PTC	138,-									•	•	•	•	•	•	•	•
6		0 .. 140 W – 100 .. 140 V, PTC	138,-									•	•	•	•	•	•	•	•
7	Motor Protection Device (2x, not mounted)	SE-B1 for 230 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
8		SE-B1 for 115 V-1-50/60 Hz	--	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9		SE-B1 for 24 V-1-50/60 Hz	--	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10		SE-B1 for 42 V-1-50/60 Hz	--	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
11		SE-B1 for 24 V-DC	--	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12	Additional Fan (2x)	230 V-1-50/60 Hz	664,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13	Discharge Gas Temperature Sensor (2x)	PTC 140 (included in SU)	280,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14	Start Unloader (SU), Cylinder Heads with Control Valve (2x) PTC 140 included (2x)	Coil for 230 V-1-50/60 Hz	1.050,-									•	•	•	•	•	•	•	•
15		Coil for 115 V-1-50/60 Hz	1.154,-									•	•	•	•	•	•	•	•
16		Coil for 48 V-1-50/60 Hz	1.154,-									•	•	•	•	•	•	•	•
17		Coil for 42 V-1-50/60 Hz	1.154,-									•	•	•	•	•	•	•	•
18		Coil for 24 V-1-50/60 Hz	1.154,-									•	•	•	•	•	•	•	•
19		Coil for 115 V-DC	1.154,-									•	•	•	•	•	•	•	•
20		Coil for 48 V-DC	1.154,-									•	•	•	•	•	•	•	•
21		Coil for 24 V-DC	1.154,-									•	•	•	•	•	•	•	•



Item	ECOLINE Tandem Compressors for R290 / R1270		Series	CEP3								CEP4S							
			Type	44FESP-6P	44FESP-10P	44FESP-8P	44FESP-12P	44DESP-10P	44DESP-14P	44CESP-12P	44CESP-18P	44VESP-14P	44VESP-20P	44TESP-18P	44TESP-24P	44PESP-24P	44PESP-30P	44NESP-28P	44NESP-40P
			Price EUR	5.145,-	5.658,-	5.265,-	5.986,-	6.537,-	6.855,-	7.151,-	7.424,-	9.234,-	9.595,-	9.472,-	9.871,-	10.250,-	10.682,-	11.501,-	12.188,-
	Accessories	Additional Information																	
22	Capacity Control (CRII), Cylinder Head with Control Valve (1x) Possible Residual Capacity see Technical Information KT-101	Coil for 230 V-1-50/60 Hz	345,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
23		Coil for 115 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
24		Coil for 48 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25		Coil for 42 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
26		Coil for 24 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
27		Coil for 115 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
28		Coil for 48 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
29		Coil for 24 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30	Start Unloader (SU), Cylinder Heads prepared (2x)	without Control Valve, without PTC Sensor	250,-									•	•	•	•	•	•	•	•
31	Capacity Control (CRII), Cylinder Head prepared (1x)	without Control Valve	85,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
32	Control Valve (1x) for SU and CRII, Cylinder Head prepared	Coil for 230 V-1-50/60 Hz	260,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33		Coil for Special Voltage (see SU or CRII with Control Valve)	312,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
34	Oil Service Valve (2x)	-	148,-									•	•	•	•	•	•	•	•
35	Terminal Box, Aluminium (2x)	Protection Class IP66	128,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
36	Compressor Frame (1x)	-	318,-									•	•	•	•	•	•	•	•

Item	VARISPEED Compressors with integrated Frequency Inverter		Product Series				Additional Information
			ECOLINE			OCTAGON	
			CE2F 2DES	CE3F 4FE .. 4CE	CE4F 4VE .. 4NE	CKH3F (CO ₂) 4PTC .. 4KTC	
Extent of Delivery							
1	Integrated Frequency Inverter and Motor with PTC Sensors	-	S	S	S	S	380 .. 480 V-3-50 Hz 380 .. 480 V-3-60 Hz
2	Crankcase Heater	-				S	200 .. 260 V, PTC
3	Connection Suction Line	Blind Flange				S	
4		Shut-off Valve	S	S	S		
5	Connection Discharge Line	Blind Flange				S	
6		Shut-off Valve	S	S	S		
7	Oil Charge	BSE32 (Ester Oil)	S	S	S		
8		BSE85K (Ester Oil)				S	
9	Sight Glass	-	S	S	S	S	
10	Motor Protection Device	SE-B1	S	S	S	S	for 230 V-1-50/60 Hz
11	Terminal Box, Aluminium	Enclosure Class IP54	S	S	S	S	
12	Pressure Relief Valve	-				S	
13	Vibration Dampers	Elastomer Damper Elements	S	S		S	
14		Spring Dampers			S		



Item	VARISPEED Compressors with integrated Frequency Inverter		Series	ECOLINE																OCTAGON		
				CE2F	CE3F					CE4F						CKH3F - CO ₂						
			Type	2DES-3.F1Y	4FE-5.F1Y	4EE-6.F1Y	4DE-5.F1Y	4DE-7.F3Y	4CE-6.F1Y	4CE-9.F3Y	4VE-7.F3Y	4VE-10.F4Y	4TE-9.F3Y	4TE-12.F4Y	4PE-12.F3Y	4PE-15.F4Y	4NE-14.F3Y	4NE-20.F4Y	4PTC-7.F3K	4MTC-10.F4K	4KTC-10.F4K	
				Price EUR	5.509,-	6.088,-	6.262,-	6.709,-	7.106,-	6.861,-	7.243,-	7.814,-	9.170,-	7.926,-	9.309,-	8.297,-	9.714,-	8.890,-	10.468,-	9.964,-	11.438,-	11.595,-
	Accessories	Additional Information																				
1	Ester Oil Charge BSE32	for HFC Refrigerants	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S					
2	Ester Oil Charge BSE55	for HFC Refrigerants at high Condensing Temperatures	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O					
3	Ester Oil Charge BSE85K	-	--															S	S	S		
4	Differential Oil Pressure Switch Delta-PII	115 .. 230 V-1-50/60 Hz	218,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
5	Crankcase Heater	0 .. 120 W – 200 .. 260 V, PTC	69,-	●	●	●	●	●	●	●								S	S	S		
6		0 .. 120 W – 100 .. 140 V, PTC	69,-	●	●	●	●	●	●	●								O	O	O		
7		0 .. 120 W – 400 V, PTC	69,-	●	●	●	●	●	●	●								O	O	O		
8		0 .. 140 W – 200 .. 260 V, PTC	69,-								●	●	●	●	●	●	●					
9		0 .. 140 W – 100 .. 140 V, PTC	69,-								●	●	●	●	●	●	●					
10	Motor Protection Device	SE-B1 for 230 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
11		SE-B1 for 115 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
12		SE-B1 for 24 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
13		SE-B1 for 42 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
14		SE-B1 for 24 V-DC	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
15	Additional Fan	230 V-1-50/60 Hz	332,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
16	Discharge Gas Temperature Sensor	PTC 140	140,-		●	●	●	●	●	●	●	●	●	●	●	●	●					
17	Oil Service Valve	-	74,-								●	●	●	●	●	●	●					
18	Sound Jacket	only for AC (R134a) and medium Temperature Applications (R134a / R404A)	597,-		●	●	●	●	●	●												
19			615,-								●	●	●	●	●	●	●					
20	Suction Connection	Shut-off Valve D22 (for Brazing)	64,-															●	●	●		
21	Discharge Connection	Shut-off Valve Swagelok DN 18	350,-															●	●	●		
22		Shut-off Valve DN 18 (for Brazing)	154,-															●	●	●		
23		Shut-off Valve DN 10 (for Welding)	154,-															●	●	●		
24	Pressure Relief Valve	Suction Side 90 bar	250,-															●	●	●		
25	BEST Converter - for "BITZER Electronic Service Tool"	Interface Converter Device with Cable Kit; Part-No. 34431401	436,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		



A large rectangular area filled with a light gray dot grid pattern, intended for handwritten notes.



Item	Semi-Hermetic Reciprocating Compressors Special Types		Product Series						Additional Information
			R410A		1-Phase		".2" Series	Version with Oil Pump	
	CD3 4FDC .. 4CDC	CD4 4VDC .. 4NDC	CE1E 2KES .. 2FES	CE2E 2EES .. 2CEES	B4 4Z .. 4N	CE4 4VE .. 4NE			
Extent of Delivery									
1	Motor with PTC Sensors	Star/Delta Type Y/Δ	S					220-240 V-3-50 Hz-Δ 380-420 V-3-50 Hz-Y 440-480 V-3-60 Hz-Y	
2		Part Winding Type Y/YY		S			S	S	380-420 V-3-50 Hz 440-480 V-3-60 Hz
3		for Single Phase Operation with Start Relay; Start and Run Capacitor			S	S			Information about Application Range (AC or cooling / low Temperature) required for Order Processing
4	Connection Suction Line	Shut-off Valve	S	S	S	S	S	S	
5	Connection Discharge Line	Shut-off Valve	S	S	S	S	S	S	
6	Oil Charge	BSE32 (Ester Oil)			S	S	S	S	
7		BSE55 (Ester Oil)	S	S					
8	Sight Glass	-	S	S	S	S	S	S	
9	Motor Protection Device	SE-B1	S	S	S	S		S	for 230 V-1-50/60 Hz
10		SE-B2					S		
11	Terminal Box, Plastic	Enclosure Class IP65	S	S	S	S		S	
12	Terminal Box, Aluminium	Enclosure Class IP54					S		
13	Bearing Cover for opto-electronic Oil Level Monitoring OLC-K1	for simplified Retrofitting	S	S					
14	Pressure Relief Valve	-					S		
15	Vibration Dampers	Elastomer Damper Elements	S	S	S	S			
16		Spring Dampers					S	S	

[illegible]



Item	Semi-hermetic Reciprocating Compressors Special types		Series	for R410A								
				CD3				CD4				
			Type	4FDC-5Y	4EDC-6Y	4DDC-7Y	4CDC-9Y	4VDC-10Y	4TDC-12Y	4PDC-15Y	4NDC-20Y	
				Price EUR	3.133,-	3.334,-	3.852,-	4.193,-	5.263,-	5.421,-	5.888,-	6.757,-
	Accessories	Additional Information										
22	Start Unloader (SU), Cylinder Head with Control Valve PTC 140 included	Coil for 230 V-1-50/60 Hz	525,-					●	●	●	●	
23		Coil for 115 V-1-50/60 Hz	577,-					●	●	●	●	
24		Coil for 48 V-1-50/60 Hz	577,-					●	●	●	●	
25		Coil for 42 V-1-50/60 Hz	577,-					●	●	●	●	
26		Coil for 24 V-1-50/60 Hz	577,-					●	●	●	●	
27		Coil for 115 V-DC	577,-					●	●	●	●	
28		Coil for 48 V-DC	577,-					●	●	●	●	
29		Coil for 24 V-DC	577,-					●	●	●	●	
30	Start Unloader (SU), Cylinder Head prepared	without Control Valve, without PTC Sensor	125,-					●	●	●	●	
31	Control Valve (1x) for SU and CR11, Cylinder Head prepared	Coil for 230 V-1-50/60 Hz	260,-	●	●	●	●	●	●	●	●	
32		Coil for Special Voltage (see SU or CR11 with Control Valve)	312,-	●	●	●	●	●	●	●	●	

Item	Semi-hermetic Reciprocating Compressors Special types		Series	".2"-Compressor Series										ECOLINE											
				B4										CE4 (Special Version with Oil Pump)											
			Type	42-5.2V	42-8.2V	4V-6.2V	4V-10.2V	4T-8.2V	4T-12.2V	4P-10.2V	4P-15.2V	4N-12.2V	4N-20.2V	4VE-6V	4VE-7V	4VE-10V	4TE-8V	4TE-9V	4TE-12V	4PE-10V	4PE-12V	4PE-15V	4NE-12V	4NE-14V	4NE-20V
				Price EUR	4.753,-	4.905,-	5.078,-	5.285,-	5.216,-	5.441,-	5.666,-	5.911,-	6.387,-	6.783,-	4.304,-	4.530,-	4.715,-	4.418,-	4.651,-	4.858,-	4.800,-	5.053,-	5.274,-	5.413,-	5.697,-
Accessories		Additional Information																							
1	Motor for Special Voltage	available Motors see Technical Information KT-410		238,-	245,-	254,-	264,-	261,-	272,-	283,-	296,-	319,-	339,-	215,-	227,-	236,-	221,-	233,-	243,-	240,-	233,-	264,-	271,-	285,-	303,-
2	Ester Oil Charge BSE32	for HFC Refrigerants	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
3	Ester Oil Charge BSE55	for HFC Refrigerants at high Condensing Temperatures; tc > 55°C (B4) / tc > 70 °C (CE4)	--		O		O		O		O		O		O		O		O		O			O	
4	Oil Charge B5.2	"Y" Compressor Designation omitted	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
5	Differential Oil Pressure Switch MP54	230/115 V-1-50/60 Hz	241,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
6	Differential Oil Pressure Switch Delta-PII	115 .. 230 V-1-50/60 Hz	218,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
7	Crankcase Heater	0 .. 140 W – 200 .. 260 V, PTC	69,-											●	●	●	●	●	●	●	●	●	●	●	
8		0 .. 140 W – 100 .. 140 V, PTC	69,-											●	●	●	●	●	●	●	●	●	●	●	
9		100 W, 230 V	74,-	●	●	●	●	●	●	●	●	●	●												
10		100 W, 115 V	74,-	●	●	●	●	●	●	●	●	●	●												
11		100 W, 400 V	74,-	●	●	●	●	●	●	●	●	●	●												
12	Motor Protection Device	SE-B1 for 230 V-1-50/60 Hz	--											S	S	S	S	S	S	S	S	S	S	S	
13		SE-B1 for 115 V-1-50/60 Hz	--												O	O	O	O	O	O	O	O	O	O	
14		SE-B1 for 24 V-1-50/60 Hz	--												O	O	O	O	O	O	O	O	O	O	
15		SE-B1 for 42 V-1-50/60 Hz	--												O	O	O	O	O	O	O	O	O	O	
16		SE-B1 for 24 V-DC	--												O	O	O	O	O	O	O	O	O	O	
17		SE-B2 for 230 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S											
18		SE-B2 for 115 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O											
19		SE-B2 for 24 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O											
20		SE-B2 for 42 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O											
21		SE-B2 for 24 V-DC	--	O	O	O	O	O	O	O	O	O	O	O											
22	Additional Fan	230 V-1-50/60 Hz	332,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
23	Discharge Gas Temperature Sensor	PTC 140 (included in SU)	140,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	



Item	Semi-hermetic Reciprocating Compressors Special types		Series	".2"-Compressor Series										ECOLINE											
				B4										CE4 (Special Version with Oil Pump)											
			Type	4Z-5.2Y	4Z-8.2Y	4V-6.2Y	4V-10.2Y	4T-8.2Y	4T-12.2Y	4P-10.2Y	4P-15.2Y	4N-12.2Y	4N-20.2Y	4VE-6Y	4VE-7Y	4VE-10Y	4TE-8Y	4TE-9Y	4TE-12Y	4PE-10Y	4PE-12Y	4PE-15Y	4NE-12Y	4NE-14Y	4NE-20Y
				Price EUR	4.753,-	4.905,-	5.078,-	5.285,-	5.216,-	5.441,-	5.666,-	5.911,-	6.387,-	6.783,-	4.304,-	4.530,-	4.715,-	4.418,-	4.651,-	4.858,-	4.800,-	5.053,-	5.274,-	5.413,-	5.697,-
	Accessories	Additional Information																							
24	Start Unloader (SU), Cylinder Head with Control Valve PTC 140 included	Coil for 230 V-1-50/60 Hz	525,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
25		Coil for 115 V-1-50/60 Hz	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
26		Coil for 48 V-1-50/60 Hz	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
27		Coil for 42 V-1-50/60 Hz	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
28		Coil for 24 V-1-50/60 Hz	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
29		Coil for 115 V-DC	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
30		Coil for 48 V-DC	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
31		Coil for 24 V-DC	577,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
32	Capacity Control, Cylinder Head with Control Valve (1x) (B4: CR / CE4: CRII)	Coil for 230 V-1-50/60 Hz	345,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
33		Coil for 115 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
34		Coil for 48 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
35		Coil for 42 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
36		Coil for 24 V-1-50/60 Hz	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
37		Coil for 115 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
38		Coil for 48 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
39		Coil for 24 V-DC	397,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
40	Start Unloader (SU), Cylinder Head prepared	without Control Valve, without PTC Sensor	125,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
41	Capacity Control (CR / CRII), Cylinder Head prepared (1x)	without Control Valve	85,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
42	Control Valve (1x) for SU and CR / CRII, Cylinder Head prepared	Coil for 230 V-1-50/60 Hz	260,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
43		Coil for Special Voltage (see SU or CRII with Control Valve)	312,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
44	Oil Service Valve	not applicable with Oil & Gas Equalizing Fittings	74,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
45	Oil & Gas Equalizing Fittings	not applicable with Oil Service Valve	64,-	•	•	•	•	•	•	•	•	•													
46	Conversion Kit for Marine Application	-	472,-	•	•	•	•	•	•	•	•														
47	CIC-System	Controlled Injection Cooling for R407F, R407A, R22	866,-	•		•		•		•			•			•			•			•			
48	Terminal Box	Protection Class IP66	254,-	•	•	•	•	•	•	•	•	•													
49	Water-cooled Cylinder Heads	-	149,-	•	•	•	•	•	•	•	•	•													
50	Water-cooled Cylinder Heads - for Seawater	coated Cylinder Heads	377,-	•	•	•	•	•	•	•	•	•													

Item	Semi-Hermetic Units		Compressor Units with Receiver	Air-cooled Condensing Units		Water-cooled Condensing Units		ECOSTAR		Additional Information
			F062H/.. - F392T/..	LH32E/.. - LH84E/..	LH104E/.. - LH135E/..	K../..	K../..	LHV6/..	LHV7E/..	
	Extent of Delivery									
1	Semi-Hermetic Reciprocating Compressor	-	S	S	S	S	S			
2		with Frequency Inverter						S	S	
3	Crankcase Heater	0 .. 120 W - 200 .. 260 V, PTC						S	S	
4	Air-cooled Condenser	Minichannel Design; with 1 EC fan (capable for speed control)		S						230 V-1-50/60 Hz
5		Minichannel Design; with 2 EC fans (capable for speed control)			S					230 V-1-50/60 Hz
6		Minichannel Design; with 2 EC fans (speed controlled)						S	S	Fans controlled by Programmable Controller (Item 14)
7	Shell and Tube Condenser	-				S	S			
8	Protection Housing	-						S	S	
9	Liquid Receiver	with Shut-off Valve	S	S	S			S	S	
10	Connection for Pressure Relief Valve	at Receiver / Condenser	S		S	S	S	S	S	
11	Sight Glass and Filter Drier	in Discharge Line						S	S	
12	High Pressure / Low Pressure Switch	-						S	S	
13	Discharge Line	-		S	S	S	S	S	S	
14	Programmable Controller	Compressor Speed and Unit Control for Condensing Unit						S	S	
15	Complete Piping / Wiring	-						S	S	
16	Injection Valve for CIC Operation	Controlled Injection Cooling							S	

Semi-Hermetic Units		CE1S .. CE4S										CE1S .. CE4S Tandem										BE5 .. BE6					BE5 .. BE6 Tandem					2-Stage BS4, BS5, BS6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
																																F.../S6F-30.2Y					F.../S6G-25.2Y					F.../S6H-20.2Y					F.../S6I-16.2Y					F.../S6G-12.2Y					F.../SAN-8.2Y					F.../SAT-5.2Y					F.../66FE-88Y					F.../66GE-68Y					F.../66HE-56Y					F.../66IE-50Y					F.../44GE-46Y					F.../44HE-36Y					F.../44IE-30Y					F.../6FE-44Y					F.../6GE-34Y					F.../6HE-28Y					F.../6IE-25Y					F.../4GE-23Y					F.../4HE-18Y					F.../4IE-15Y					F.../44NES-28Y					F.../44PES-24Y					F.../44TES-18Y					F.../44VES-14Y					F.../44CES-12Y					F.../44DES-10Y					F.../44EES-8Y					F.../44FES-6Y					F.../22CES-6Y					F.../22DES-4Y					F.../22EES-4Y					F.../4NES-14Y					F.../4PES-12Y					F.../4TES-9Y					F.../4VES-7Y					F.../4CES-6Y					F.../4DES-5Y					F.../4EES-4Y					F.../4FES-3Y					F.../2CES-3Y					F.../2DES-2Y					F.../2EES-2Y					F.../2FES-2Y					F.../2GES-2Y					F.../2HES-1Y					F.../2IES-07Y					F.../2KES-05Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Compressor Units with Liquid Receiver		F062H/....										F102H/....										F152H/....					F202H/....					F302H/....					F402H/....					F552T/....					F1052T/....					F192T/....					F392T/....																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Item	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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Item	Air-cooled Condensing Units (LHE) with ECOLINE Compressors		Series	ECOLINE																				ECOLINE - Tandem																		
			Type																																							
				Price EUR	LH32E/2KES-05Y	LH32E/2IES-07Y	LH33E/2HES-1Y	LH33E/2HES-2Y	LH33E/2GES-2Y	LH44E/2GES-2Y	LH44E/2FES-2Y	LH44E/2FES-3Y	LH44E/2EES-2Y	LH44E/2EES-3Y	LH53E/2DES-2Y	LH64E/2DES-3Y	LH64E/2CES-3Y	LH84E/2CES-4Y	LH64E/4FES-3Y	LH84E/4FES-5Y	LH64E/4EES-4Y	LH84E/4EES-6Y	LH104E/4DES-5Y	LH104E/4DES-7Y	LH84E/4CES-6Y	LH114E/4CES-9Y	LH104E/4TES-9Y	LH114E/4TES-12Y	LH114E/4FES-12Y	LH135E/4FES-15Y	LH124E/4NES-14Y	LH135E/4NES-20Y	LH114E/44FES-6Y	LH114E/44FES-10Y	LH114E/44EES-8Y	LH124E/44EES-12Y	LH124E/44DES-10Y	LH135E/44DES-14Y	LH135E/44CES-12Y	LH135E/44CES-18Y		
Accessories COMPRESSOR	Additional Information																																									
26	Motor for Special Voltage	available Motors see Technical Information KT-410	➔	66,-	66,-	67,-	68,-	68,-	68,-	71,-	75,-	100,-	108,-	104,-	109,-	108,-	113,-	118,-	130,-	121,-	139,-	153,-	161,-	168,-	175,-	226,-	236,-	245,-	256,-	277,-	294,-	240,-	266,-	246,-	283,-	311,-	327,-	342,-	356,-			
27	Ester Oil Charge BSE32	for HFC Refrigerants	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
28	Ester Oil Charge BSE55	for HFC Refrigerants at high Condensing Temperatures; tc > 70 °C	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
29	Oil Charge B5.2	"Y" Compressor Designation omitted	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
30	Opto-electronic Oil Level Monitoring OLC-K1 (mounted)	230 V-1-50/60 Hz	290,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
31		230 V-1-50/60 Hz	580,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
32		115 V-1-50/60 Hz	290,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
33		115 V-1-50/60 Hz	580,-																		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34	Crankcase Heater	0 .. 60 W – 100 .. 240 V, PTC	57,-	•	•	•	•	•	•	•	•																															
35		0 .. 60 W – 200 .. 400 V, PTC	57,-	•	•	•	•	•	•	•	•																															
36		0 .. 120 W – 200 .. 260 V, PTC	69,-										•	•	•	•	•	•	•	•	•	•	•	•	•																	
37		0 .. 120 W – 100 .. 140 V, PTC	69,-										•	•	•	•	•	•	•	•	•	•	•	•	•																	
38		0 .. 140 W – 200 .. 260 V, PTC	69,-																								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
39		0 .. 140 W – 100 .. 140 V, PTC	69,-																								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
40		0 .. 120 W – 200 .. 260 V, PTC	138,-																								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
41		0 .. 120 W – 100 .. 140 V, PTC	138,-																								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
42	Discharge Gas Temperature Sensor	PTC 140 (included in SU)	140,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
43		PTC 140 (included in SU)	280,-																															•	•	•	•	•	•	•		
44	Start Unloader (SU), Cylinder Head with Control Valve PTC 140 included Check Valve required	Coil for 230 V-1-50/60 Hz (1x)	525,-																							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
45		Coil for 230 V-1-50/60 Hz (2x)	1.050,-																															•	•	•	•	•	•	•		
46		Coil for 115 V-1-50/60 Hz (1x)	577,-																								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
47		Coil for 115 V-1-50/60 Hz (2x)	1.154,-																								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
48	Capacity Control (CRII), Cylinder Head with Control Valve (1x)	Coil for 230 V-1-50/60 Hz	345,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
49	Possible Residual Capacity see Technical Information KT-101	Coil for 115 V-1-50/60 Hz	397,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
50	Oil Service Valve	-	74,-																							•	•	•	•	•	•	•	•	•								

Item	Air-cooled Condensing Units (LHE) - with ECOLINE Compressors - with 2-Stage Compressors		Series	ECOLINE								2-Stage					
			Type	LH135E/4JE-15Y	LH135E/4JE-22Y	LH135E/4HE-18Y	LH135E/4HE-25Y	LH135E/4GE-23Y	LH135E/6JE-25Y	LH135E/6HE-28Y	LH104E/S4T-5.2Y	LH104E/S4N-8.2Y	LH124E/S4G-12.2Y	LH135E/S6J-16.2Y	LH135E/S6H-20.2Y	LH135E/S6G-25.2Y	
			Price EUR	14.034,-	14.419,-	14.053,-	14.438,-	14.961,-	15.796,-	16.077,-	9.827,-	10.437,-	14.066,-	18.142,-	18.436,-	19.845,-	
	Accessories CONDENSING UNIT	Additional Information															
1	Liquid Receiver with Larger Volume	-	248,-								•	•					
2	Weather Protection Housing	Mounting Kit	1.697,-								•	•					
3			2.086,-	•	•	•	•	•	•	•			•	•	•	•	
4	Condenser with Plastic Coated Fins	for improved Corrosion Protection	1.731,-								•	•	•				
5			2.386,-	•	•	•	•	•	•	•				•	•	•	
6	Accessory Pack	HP and LP Switches mounted; Wiring to Terminal Strip; Liquid Line with Sight Glass and Filter Drier; Suction Line to outer Unit Edge (LH32 to LH84)	1.743,-	•	•	•	•	•	•	•							
7	Electronic Speed Control Device for Condenser Fan	Pressure Range 8 to 25 bar	263,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8		Pressure Range 5 to 15 bar	263,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9	High and Low Pressure Switch	-	261,-								•	•					
10		with HP-safety cut-out	707,-	•	•	•	•	•	•	•			•	•	•	•	
11	Check Valve	in Discharge Line	560,-	•	•	•	•	•	•	•							
12	Oil Separator	with Check Valve in Discharge Line	1.304,-	•	•	•	•	•	•	•	•	•	•	•	•	•	
13	Liquid Subcooler - assembled	Liquid Subcooler; Liquid Injection Valve sized for Operation with Subcooler (complete with Piping; Components assembled and insulated)	1.228,-								•	•	•				
14			1.512,-											•	•	•	

Item	Air-cooled Condensing Units (LHE) - with ECOLINE Compressors - with 2-Stage Compressors		Series	ECOLINE								2-Stage						
			Type	LH135E/4JE-15Y	LH135E/4JE-22Y	LH135E/4HE-18Y	LH135E/4HE-25Y	LH135E/4GE-23Y	LH135E/6JE-25Y	LH135E/6HE-28Y	LH104E/S4T-5.2Y	LH104E/S4N-8.2Y	LH124E/S4G-12.2Y	LH135E/S6J-16.2Y	LH135E/S6H-20.2Y	LH135E/S6G-25.2Y		
				Price EUR	14.034,-	14.419,-	14.053,-	14.438,-	14.961,-	15.796,-	16.077,-	9.827,-	10.437,-	14.066,-	18.142,-	18.436,-	19.845,-	
	Accessories COMPRESSOR	Additional Information																
15	Motor for Special Voltage	available Motors see Technical Information KT-410	➔	363,-	382,-	364,-	383,-	409,-	450,-	464,-	298,-	328,-	455,-	567,-	581,-	651,-		
16	Ester Oil Charge BSE32	for HFC Refrigerants	--	S	S	S	S	S	S	S	S	S	S	S	S	S		
17	Ester Oil Charge BSE55	for HFC Refrigerants at high Condensing Temperatures; tc > 70 °C	--	○	○	○	○	○	○	○	○	○	○	○	○	○		
18	Oil Charge B5.2	"Y" Compressor Designation omitted	--	○	○	○	○	○	○	○	○	○	○	○	○	○		
19	Differential Oil Pressure Switch MP54 (mounted)	230/115 V-1-50/60 Hz	317,-	●	●	●	●	●	●	●	●	●	●	●	●	●		
20	Differential Oil Pressure Switch Delta-PII (mounted)	115 .. 230 V-1-50/60 Hz	290,-	●	●	●	●	●	●	●	●	●	●	●	●	●		
21	Crankcase Heater	100 W, 230 V	74,-								●	●						
22		140 W, 230 V	78,-	●	●	●	●	●	●	●			●	●	●	●		
23		100 W, 115 V	74,-								●	●						
24		140 W, 115 V	78,-	●	●	●	●	●	●	●			●	●	●	●		
25	Discharge Gas Temperature Sensor	PTC 140 (included in SU)	140,-	●	●	●	●	●	●	●	●	●	●	●	●	●		
26	Start Unloader (SU), Cylinder Head with Control Valve PTC 140 included Check Valve required	Coil for 230 V-1-50/60 Hz	525,-	●	●	●	●	●	●	●								
27		Coil for 115 V-1-50/60 Hz	577,-	●	●	●	●	●	●	●								
28	Capacity Control (CRII), Cylinder Head with Control Valve (1x)	Coil for 230 V-1-50/60 Hz	345,-	●	●	●	●	●	●	●								
29	Possible Residual Capacity see Technical Information KT-101	Coil for 115 V-1-50/60 Hz	397,-	●	●	●	●	●	●	●								
30	Oil Service Valve	-	74,-	●	●	●	●	●	●	●	●	●	●	●	●	●		

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Item	ECOSTAR Air-cooled Condensing Units with VARISPEED Compressors		Series	LHV6							LHV7E					
			Type	LHV6/2DES-3.F1Y	LHV6/4FE-5.F1Y	LHV6/4EE-6.F1Y	LHV6/4DE-5.F1Y	LHV6/4DE-7.F3Y	LHV6/4CE-6.F1Y	LHV6/4CE-9.F3Y	LHV7E/4DE-7.F3Y	LHV7E/4CE-9.F3Y	LHV7E/4VE-7.F3Y	LHV7E/4TE-9.F3Y	LHV7E/4PE-12.F3Y	LHV7E/4NE-14.F3Y
			Price EUR	12.735,-	13.411,-	14.135,-	14.410,-	15.297,-	14.820,-	16.468,-	15.297,-	16.468,-	17.593,-	17.705,-	18.075,-	18.669,-
	Accessories		Additional Information													
1	Differential Oil Pressure Switch Delta-PII (mounted)	115 .. 230 V-1-50/60 Hz	290,-	●	●	●	●	●	●	●	●	●	●	●	●	●
2	Sound Jacket	only for AC (R134a) and medium Temperature Applications (R134a / R404A)	597,-		●	●	●	●	●	●						
3	Adjustable Mounting Blocks	-	63,-	●	●	●	●	●	●	●						
4	Transport Lugs	-	93,-	●	●	●	●	●	●	●						
5	Temperature Sensor	for Cold Store Temperature	46,-	●	●	●	●	●	●	●	●	●	●	●	●	●
6		for Suction Gas Temperature	46,-	●	●	●	●	●	●	●	S	S	S	S	S	S
7	BEST Converter - for "BITZER Electronic Service Tool"	Interface Converter Device with Cable Kit; Part-No. 34431401	436,-	●	●	●	●	●	●	●	●	●	●	●	●	●
8	Check Valve	for Discharge Line - mounting kit	258,-								●	●	●	●	●	●
9	Oil Separator	with Check Valve - mounting kit	980,-								●	●	●	●	●	●



A large grid of small dots for taking notes, consisting of 20 columns and 30 rows.



Item	Open Drive Reciprocating Compressors		Product Series										
			".2" Series					for NH ₃				0 .. VIIW	
	Extent of Delivery		BO3 2T, 2N	BO4 4T .. 4N	BO5 4H, 4G	BO6 6H .. 6F	BOS6 S6H .. S6F	BOA3 W2TA, W2NA	BOA4 W4TA .. W4NA	BOA5 W4HA, W4GA	BOA6 W6HA .. W6FA	0 .. I	II .. VIIW
1	Connection Suction Line	Shut-off Valve	S	S	S	S	S	S	S	S	S	S	S
2	Connection Discharge Line	Shut-off Valve	S	S	S	S	S	S	S	S	S	S	S
3	Oil Charge	BSE32 (Ester Oil)	S	S	S	S	S					S	S
4		KC68 (Mineral Oil)						S	S	S	S		
5	Sight Glass	-	S	S	S	S	S	S	S	S	S		S
6	Pressure Relief Valve	-			S	S	S			S	S		
7	Flywheel	Compressor Side										S	S

Item	Condensing Units with Open Drive Reciprocating Compressors		Product Series		
			Air-cooled	Water-cooled	Seawater-cooled
	Extent of Delivery		L05/OY .. L50/VY	K03N/IIY .. K573H/VIIWY	K03NB/IIY .. K573HB/VIIWY
8	Open Drive Reciprocating Compressor	Series 0 .. VIIW	S	S	S
9	Flywheel	-	S	S	S
10	Frame with Motor Mounting Rails and Beltguard	-	S	S	S
11	Fan Blade and Guard	-	S		
12	Air-cooled Condenser	-	S		
13	Shell and Tube Condenser	-		S	S
14	Liquid Receiver	with Shut-off Valve	S		
15	Discharge Line	-		S	S

Item	Open Drive Reciprocating Compressors			Series	".2"-Series												NH ₃						0 .. VIIW											
					BO3		BO4		BO5		BO6		BOS6		BOA3		BOA4		BOA5		BOA6													
				Type	2T.2Y	2N.2Y	4T.2Y	4P.2Y	4N.2Y	4H.2Y	4G.2Y	6H.2Y	6G.2Y	6F.2Y	56H.2Y	56G.2Y	56F.2Y	W2TA	W2NA	W4TA	W4PA	W4NA	W4HA	W4GA	W6HA	W6GA	W6FA	0Y	IV	IIY	IIIV	IVY	VY	VIIWY
				Price EUR	2.705,-	2.927,-	3.482,-	4.051,-	4.223,-	6.134,-	6.247,-	7.887,-	8.075,-	8.506,-	10.197,-	10.391,-	10.818,-	3.516,-	3.803,-	4.530,-	5.037,-	5.260,-	7.683,-	7.799,-	9.684,-	9.875,-	10.300,-							
	Accessories	Additional Information																																
1	Coupling Housing for B3/B5 IEC Motors	GK2370	Motor Flange D250	424,-	●	●									●	●																		
2		GK2380	Motor Flange D300	424,-	●	●									●	●																		
3		GK4430	Motor Flange D300	424,-			●	●	●								●	●	●															
4		GK4440	Motor Flange D350	465,-			●	●	●								●	●	●															
5		GK6490	Motor Flange D350	561,-						●	●	●	●	●	●					●	●	●	●	●	●	●								
6		GK6500	Motor Flange D400	561,-						●	●	●	●	●	●					●	●	●	●	●	●	●								
7		GK6510	Motor Flange D450	848,-						●	●	●	●	●	●					●	●	●	●	●	●	●								
8	Coupling Selection see Technical Information KT-160	KK211	without Bore	318,-	●	●									●	●																		
9		KK211	Bore for Shaft D28	318,-	●	●									●	●																		
10		KK211	Bore for Shaft D38	318,-	●	●									●	●																		
11		KK211	Bore for Shaft D42	318,-	●	●									●	●																		
12		KK215	without Bore	318,-	●	●									●	●																		
13		KK215	Bore for Shaft D38	318,-	●	●									●	●																		
14		KK411	pilot-drilled	318,-			●	●	●									●	●	●														
15		KK411	Bore for Shaft D38	318,-			●	●	●									●	●	●														
16		KK411	Bore for Shaft D42	318,-			●	●	●									●	●	●														
17		KK415	pilot-drilled	318,-			●	●	●									●	●	●														
18		KK415	Bore for Shaft D28	318,-			●	●	●									●	●	●														
19		KK415	Bore for Shaft D38	318,-			●	●	●									●	●	●														
20		KK420	pilot-drilled	630,-			●	●	●									●	●	●														
21		KK420	Bore for Shaft D38	630,-			●	●	●									●	●	●														
22		KK420	Bore for Shaft D42	630,-			●	●	●									●	●	●														
23		KK420	Bore for Shaft D48	630,-			●	●	●									●	●	●														
24		KK425	pilot-drilled	630,-			●	●	●									●	●	●														
25		KK425	Bore for Shaft D42	630,-			●	●	●									●	●	●														
26		KK620	pilot-drilled	630,-						●	●	●	●	●	●						●	●	●	●	●	●								
27		KK620	Bore for Shaft D42	630,-						●	●	●	●	●	●						●	●	●	●	●	●								
28		KK620	Bore for Shaft D48	630,-						●	●	●	●	●	●						●	●	●	●	●	●								
29		KK625	pilot-drilled	630,-						●	●	●	●	●	●						●	●	●	●	●	●								
30		KK625	Bore for Shaft D42	630,-						●	●	●	●	●	●						●	●	●	●	●	●								
31		KK625	Bore for Shaft D48	630,-						●	●	●	●	●	●						●	●	●	●	●	●								
32		KK630	pilot-drilled	1.002,-						●	●	●	●	●	●						●	●	●	●	●	●								
33		KK630	Bore for Shaft D55	1.002,-						●	●	●	●	●	●						●	●	●	●	●	●								
34		KK630	Bore for Shaft D60	1.002,-						●	●	●	●	●	●						●	●	●	●	●	●								



Item	Open Drive Reciprocating Compressors		Series	".2"-Series											NH ₃						0 .. VIIW													
				BO3		BO4		BO5		BO6		BOS6			BOA3		BOA4		BOA5										BOA6					
			Type	2T.2Y	2N.2Y	4T.2Y	4P.2Y	4N.2Y	4H.2Y	4G.2Y	6H.2Y	6G.2Y	6F.2Y	S6H.2Y	S6G.2Y	S6F.2Y	W2TA	W2NA	W4TA	W4PA	W4NA	W4HA	W4GA	W6HA	W6GA	W6FA	OY	IY	IIY	IIIV	IVY	VY	VIIWY	
			Price EUR	2,705,-	2,927,-	3,482,-	4,051,-	4,223,-	6,134,-	6,247,-	7,887,-	8,075,-	8,506,-	10,197,-	10,391,-	10,818,-	3,516,-	3,803,-	4,530,-	5,037,-	5,260,-	7,683,-	7,799,-	9,684,-	9,875,-	10,300,-	645,-	674,-	777,-	939,-	1,267,-	2,013,-	3,486,-	4,781,-
	Accessories	Additional Information																																
35	Compressor Flywheel / Pulley	-	126,-	●	●										●	●																		
172,-					●	●	●										●	●	●							●	●	●	●	●	●	●	●	
256,-								●	●	●	●	●	●	●						●	●	●	●	●										
38	Ester Oil Charge BSE32	for HFC Refrigerants	--	●	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	
39	Ester Oil Charge BSE55	for HFC Refrigerants and high Condensing Temperatures; tc > 55 °C	--	●	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	
40	Oil Charge KC68	for NH ₃	--												●	●	●	●	●	●	●	●	●	●										
41	Oil Charge B5.2	"Y" Compressor Designation omitted	--	●	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	
42	Differential Oil Pressure Switch MP54	230/115 V-1-50/60 Hz	241,-	●	●	●	●	●	●	●	●	●	●	●																				
43	Differential Oil Pressure Switch Delta-PII	115 .. 230 V-1-50/60 Hz	218,-	●	●	●	●	●	●	●	●	●	●	●																				
44	Differential Oil Pressure Switch MP55A	230/115 V-1-50/60 Hz	796,-												●	●	●	●	●	●	●	●	●	●										
45	Crankcase Heater	Heater Sleeve (Retrofitting of Heater for IIIV and IVY)	--	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
46			116,-																											●	●			
47			24,-																													●	●	●
48		70 W, 230 V	69,-	●	●											●	●															●		
49		70 W, 115 V	69,-	●	●											●	●															●		
50		70 W, 24 V	69,-	●	●											●	●															●		
51		70 W, 400 V	69,-	●	●											●	●															●		
52		100 W, 230 V	74,-			●	●	●										●	●	●												●	●	
53		100 W, 115 V	74,-			●	●	●										●	●	●												●	●	
54		100 W, 24 V	76,-			●	●	●										●	●	●												●	●	
55		100 W, 400 V	74,-			●	●	●										●	●	●												●	●	
56		140 W, 230 V	78,-						●	●	●	●	●	●	●						●	●	●	●	●									
57		140 W, 115 V	78,-						●	●	●	●	●	●	●						●	●	●	●	●									
58		140 W, 24 V	78,-						●	●	●	●	●	●	●						●	●	●	●	●									
59		140 W, 400 V	78,-						●	●	●	●	●	●	●						●	●	●	●	●									
60		70 W, 230 V, with Bore for Heater	163,-																											●	●			
61		70 W, 115 V, with Bore for Heater	163,-																											●	●			
62		70 W, 24 V, with Bore for Heater	163,-																											●	●			
63		70 W, 400 V, with Bore for Heater	163,-																											●	●			



Item	Open Drive Reciprocating Compressors		Series	".2"-Series												NH ₃						0 .. VIIW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				BO3		BO4		BO5		BO6		BOS6		BOA3		BOA4		BOA5		BOA6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			Type	2T.2Y	2N.2Y	4T.2Y	4P.2Y	4N.2Y	4H.2Y	4G.2Y	6H.2Y	6G.2Y	6F.2Y	56H.2Y	56G.2Y	56F.2Y	W2TA	W2NA	W4TA	W4PA	W4NA	W4HA	W4GA	W6HA	W6GA	W6FA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			Price EUR	2.705,-	2.927,-	3.482,-	4.051,-	4.223,-	6.134,-	6.247,-	7.887,-	8.075,-	8.506,-	10.197,-	10.391,-	10.818,-	3.516,-	3.803,-	4.530,-	5.037,-	5.260,-	7.683,-	7.799,-	9.684,-	9.875,-	10.300,-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Item	Open Drive Reciprocating Compressors		Series	".2"-Series										NH ₃						0 .. VIIW														
				BO3		BO4		BO5		BO6		BO6		BOA3		BOA4		BOA5										BOA6						
			Type	2T.2Y	2N.2Y	4T.2Y	4P.2Y	4N.2Y	4H.2Y	4G.2Y	6H.2Y	6G.2Y	6F.2Y	S6H.2Y	S6G.2Y	S6F.2Y	W2TA	W2NA	W4TA	W4PA	W4NA	W4HA	W4GA	W6HA	W6GA	W6FA	0Y	IV	IIV	IIIV	IVY	VY	VIIWY	VIIWY
			Price EUR	2.705,-	2.927,-	3.482,-	4.051,-	4.223,-	6.134,-	6.247,-	7.887,-	8.075,-	8.506,-	10.197,-	10.391,-	10.818,-	3.516,-	3.803,-	4.530,-	5.037,-	5.260,-	7.683,-	7.799,-	9.684,-	9.875,-	10.300,-	645,-	674,-	777,-	939,-	1.267,-	2.013,-	3.486,-	4.781,-
	Accessories	Additional Information																																
95	Start Unloader (SU), Cylinder Head prepared	without Control Valve, without PTC Sensor, without Control Module	125,-	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•	•	•											
96	Capacity Control (CR), Cylinder Head prepared (1x)	without Control Valve	85,-			•	•	•	•	•	•						•	•	•	•	•	•	•											
97	Control Valve (1x) for SU and CRII, Cylinder Head prepared	Coil for 230 V-1-50/60 Hz	260,-			•	•	•	•	•	•						•	•	•	•	•	•	•											
98		Coil for Special Voltage (see SU or CRII with Control Valve)	312,-			•	•	•	•	•	•						•	•	•	•	•	•	•											
99	Water-cooled Cylinder Heads	-	83,-	•	•										S	S													•	•	•	S	S	
100			165,-			•	•	•	•	•								S	S	S	S	S												
101			249,-								•	•	•										S	S	S									
102	Water-cooled Cylinder Heads - for Seawater	coated Cylinder Heads	197,-	•	•																								•	•	•			
103			393,-			•	•	•	•	•																								
104			590,-							•	•	•																						
105			114,-													•	•																•	•
106			227,-															•	•	•	•	•												
107			341,-																				•	•	•									
108	Liquid Subcooler - enclosed	Liquid Subcooler; Liquid Injection Valve sized for Operation with Subcooler (Piping Elements and Insulation not included; Kit not assembled)	596,-									•	•	•																				

Item	Air-cooled and Water-cooled Condensing Units with 0 .. VIIW Compressor Series		Series	Air-cooled										Water-cooled					Seawater-cooled					
			Type	L05/0Y	L10/1Y	L20/IIY	L30/IIY	L30/IIIV	L40/IIIV	L40/IVY	L50/IVY	L50/VY	K033N/IIY	K073H/IIIV	K123H/IVY	K203H/VY	K373H/VIIWY	K573H/VIIWY	K033NB/IIY	K073HB/IIIV	K123HB/IVY	K203HB/VY	K373HB/VIIWY	K573HB/VIIWY
			Price EUR	1.169,-	1.192,-	1.512,-	1.654,-	1.764,-	2.263,-	2.609,-	3.133,-	3.856,-	1.608,-	1.938,-	2.726,-	4.284,-	6.420,-	9.253,-	1.839,-	2.279,-	3.098,-	4.832,-	7.165,-	10.314,-
	Accessories	Additional Information																						
109	Motor Pulley and V-Belt	Required Ordering Information: outer Diameter and Diameter of Motor Shaft Bore	71,-	•	•	•	•	•					•	•					•	•				
110			140,-						•	•	•	•			•	•					•	•		
111			275,-														•	•					•	•
112	Oil Separator	with Check Valve in Discharge Line	978,-													•						•		
113			1.304,-														•	•					•	•



Item	Compact Screw Compressor CS Series		CSH							CSW							CSVH	CSVW	Additional Information		
			CSH65..Y	CSH65..(Y)	CSH75..Y	CSH75..(Y)	CSH85..Y	CSH85..(Y)	CSH95..Y	CSH95..(Y)	CSW65..Y	CSW65..(Y)	CSW75..Y	CSW75..(Y)	CSW85..Y	CSW85..(Y)	CSW95..Y	CSW95..(Y)		CSVH	CSVW
	Extent of Delivery																				
1	Motor with PTC Sensors	Part Winding Type Δ/ΔΔ	S	S	S	S	S	S			S	S	S	S	S	S					380-415 V-3-50 Hz 440-480 V-3-60 Hz (Motor Size 320 for 50 Hz only)
2		Star-Delta Type Y/Δ							S	S							S	S			380-415 V-3-50 Hz-Δ 440-480 V-3-60 Hz-Δ (Motor Size 320 for 50 Hz only)
3	Integrated Frequency Inverter and Motor with PTC Sensors	Refrigerant cooled; complete Operation Monitoring integrated																S	S		380 .. 480 V-3-50 Hz 380 .. 480 V-3-60 Hz
4	Connection Suction Line	Braze and Weld Bushing	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
5	Connection Discharge Line	Braze and Weld Bushing	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
6	Connection for Economiser	Sealing Screw or Flange	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
7	Oil Management	integrated	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S				
8		integrated; with accessible Filter																	S	S	
9	Oil Charge	BSE170 (Ester Oil)	S		S		S		S									S			
10		BSE170L (Ester Oil)									S		S		S		S			S	
11		B320SH (Ester Oil)		S		S		S		S		S		S		S		S			
12	Sight Glass	2x	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
13	Motor Protection Device	SE-E1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S				for 230/115 V-1-50/60 Hz
14	Oil Heater	200 W	S	S	S	S					S	S	S	S					S	S	
15		300 W					S	S	S	S					S	S	S	S			
16	Opto-electronic Oil Level Monitoring OLC-D1-S	Minimum																S	S		
17	Capacity Regulator with Solenoid Valves	Slider System - 4x Control Valves	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S				230 V-1-50/60 Hz, 4x
18	Terminal Box	Enclosure Class IP54	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
19	Pressure Relief Valve(s)	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
20	Integrated Check Valve	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
21	Oil Service Valve	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
22	Oil Temperature Sensor	PTC 120	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S				
23		NTC																	S	S	

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Item	Semi-Hermetic CSH Compact Screw Compressors		Series	CSH65							CSH75							CSH85							CSH95																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Item	Semi-Hermetic CSW Compact Screw Compressors		Series	CSW65			CSW75					CSW85					CSW95													
			Type	CSW6583-40Y	CSW6583-50(Y)	CSW6593-60(Y)	CSW7573-60Y	CSW7573-70(Y)	CSW7583-70Y	CSW7583-80(Y)	CSW7593-80Y	CSW7593-90(Y)	CSW8573-90Y	CSW8573-110(Y)	CSW8583-110Y	CSW8583-125(Y)	CSW8593-125Y	CSW8593-140(Y)	CSW9563-160(Y)	CSW9573-160Y	CSW9573-180(Y)	CSW9583-180Y	CSW9583-210(Y)	CSW9593-210Y	CSW9593-240(Y)	CSW95103-240Y	CSW95103-280(Y)	CSW95113-320(Y)		
			Price EUR	14.335,-	14.622,-	14.836,-	15.132,-	17.842,-	18.198,-	18.627,-	19.000,-	19.457,-	19.847,-	26.417,-	26.947,-	26.808,-	27.345,-	27.892,-	28.450,-	35.402,-	36.110,-	39.081,-	39.862,-	42.219,-	43.063,-	44.702,-	47.409,-	48.357,-	49.843,-	50.838,-
Accessories		Additional Information																												
1	Motor for Special Voltage	available Motors see Technical Information ST-410	➔	717,-	731,-	742,-	757,-	892,-	910,-	931,-	950,-	973,-	992,-	1.321,-	1.347,-	1.340,-	1.367,-	1.395,-	1.423,-	1.770,-	1.806,-	1.954,-	1.993,-	2.111,-	2.153,-	2.235,-	2.370,-	2.418,-	2.492,-	2.542,-
2	Ester Oil Charge BSE170L	-	--	S	S			S		S		S		S		S		S		S		S								
3			--																											
4			--											S		S		S												
5			--																S		S		S							
6			--																							S			S	
7	Ester Oil Charge BSE170	-	290,-		●		●																							
8			365,-						●		●		●						●											
9			535,-												●		●			●					●				●	
10			775,-																									●		●
11			827,-																											
12	Ester Oil Charge B320SH	-	--	S		S		S		S		S		S		S		S		S		S		S		S		S		S
13	Bridges for Direct On Line Start	-	26,-	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
14			37,-												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
15	Protection Device SE-E1	230/115 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
16		24 V-1-50/60 Hz	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
17	Protection Device SE-E2	24 V .. 230 V-1-50/60 Hz, Functions like SE-E1, suitable for Frequency Inverter Operation (replaces SE-E1)	187,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
18	Protection Device SE-C1	24 V .. 230 V-1-50/60 Hz, enhanced Protection Functions, suitable for Frequency Inverter Operation (replaces SE-E1)	350,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
19	Coils for Capacity Control / Start Unloader	230 V-1-50/60 Hz, 4x	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
20		115 V-1-60 Hz, 4x	207,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
21		24 V-1-50/60 Hz, 4x	207,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
22		24 V-DC, 4x	207,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
23		115 V-DC, 4x	207,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
24		48 V-DC, 4x	207,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

[illegible]



Item	Semi-Hermetic CSW Compact Screw Compressors		Series	CSW65				CSW75				CSW85				CSW95																
			Type	CSW6583-40Y	CSW6583-50(Y)	CSW6593-60(Y)	CSW6593-60(Y)	CSW7573-60Y	CSW7573-70(Y)	CSW7583-70Y	CSW7583-80(Y)	CSW7593-80Y	CSW7593-90(Y)	CSW8573-110(Y)	CSW8583-110Y	CSW8583-125(Y)	CSW8593-125Y	CSW8593-140(Y)	CSW9563-140Y	CSW9563-160(Y)	CSW9573-160Y	CSW9573-180(Y)	CSW9583-180Y	CSW9583-210(Y)	CSW9593-210Y	CSW9593-240(Y)	CSW95103-240Y	CSW95103-280(Y)	CSW95113-280Y	CSW95113-320(Y)		
				Price EUR	14.335,-	14.622,-	14.836,-	15.132,-	17.842,-	18.198,-	18.627,-	19.000,-	19.457,-	19.847,-	26.417,-	26.947,-	26.808,-	27.345,-	27.892,-	28.450,-	35.402,-	36.110,-	39.081,-	39.862,-	42.219,-	43.063,-	43.825,-	44.702,-	47.409,-	48.357,-	49.843,-	50.838,-
Accessories		Additional Information																														
28	Suction Line Bushing	D64L – 2 5/8"	--	S	S	S	S																									
29		D76L – 3 1/8"	--					S	S	S	S	S																				
30		D89L – 3 1/2"	51,-										•	•	•	•	•	•														
31		D105L – 4 1/8"	--										S	S	S	S	S	S	S	S	S											
32		D108L – 4 1/4"	51,-										•	•	•	•	•	•	•	•	•	•										
33		DN 125	--																				S	S	S	S	S	S	S	S	S	
34	D134L	51,-																					•	•	•	•	•	•	•	•	•	
35	Suction Shut-off Valve	D64L – 2 5/8"	144,-	•	•	•	•																									
36		D76L – 3 1/8"	345,-					•	•	•	•	•	•																			
37		D89L – 3 1/2"	864,-										•	•	•	•	•	•														
38		D105L – 4 1/8"	864,-										•	•	•	•	•	•	•	•	•	•										
39		D108L – 4 1/4"	864,-										•	•	•	•	•	•	•	•	•	•										
40		DN 125	1.511,-																					•	•	•	•	•	•	•	•	•
41	D134L	1.511,-																					•	•	•	•	•	•	•	•	•	
42	Discharge Line Bushing	D54L – 2 1/8"	51,-	S	S	S	S	•	•	•	•	•	•																			
43		D64L – 2 5/8"	51,-					S	S	S	S	S	•	•	•	•	•	•														
44		D76L – 3 1/8"	--										S	S	S	S	S	S														
45		D89L – 3 1/2"	51,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•
46		D105L – 4 1/8"	--																S	S	S	S	S	S	S	S	S	S	S	S	S	
47		D108L – 4 1/4"	51,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•
48	Discharge Shut-off Valve	D54L – 2 1/8"	144,-	•	•	•	•	•	•	•	•	•																				
49		D64L – 2 5/8"	144,-					•	•	•	•	•	•																			
50		D64L – 2 5/8"	345,-										•	•	•	•	•	•														
51		D76L – 3 1/8"	345,-										•	•	•	•	•	•														
52		D89L – 3 1/2"	864,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•
53		D105L – 4 1/8"	864,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•
54	D108L – 4 1/4"	864,-																					•	•	•	•	•	•	•	•	•	

Item	Semi-Hermetic CSVH / CSVW Compact Screw Compressors with integrated Frequency Inverter		Series	CSVH2			CSVH3		CSVW2		
			Type	CSVH24-125Y	CSVH25-160Y	CSVH26-200Y	CSVH37-240Y	CSVH38-290Y	CSVW24-125MY	CSVW25-160MY	CSVW26-200MY
			Price EUR	42.502,-	46.327,-	49.907,-	Availability and Prices on Request				
Accessories		Additional Information									
1	Network Choke	212-182-KS	1.109,-	●							
2		212-230-KS	1.404,-	●	●						
3		212-280-KS	1.525,-	●	●	●					
4		212-330-KS	1.834,-		●	●					
5		212-400-S	2.794,-			●					
6		212-500-S	2.982,-								
7		212-600-S	3.540,-								
8	RFI Filter	3258-180-40	1.895,-	●							
9		3359-250-28	2.012,-	●	●	●					
10		3359-320-99	2.228,-		●	●					
11		3359-400-99	3.712,-			●					
12		3359-600-99	3.925,-								
13	Suction Line Bushing	D105L – 4 1/8"	--	S	S	S					
14		D108L – 4 1/4"	51,-	●	●	●					
15		DN 125	--								
16	Suction Shut-off Valve	D105L – 4 1/8"	864,-	●	●	●					
17		D108L – 4 1/4"	864,-	●	●	●					
18		DN 125	1.511,-								
19		D134L	1.511,-								
20	Discharge Line Bushing	D76L – 3 1/8"	--	S	S	S					
21		D105L – 4 1/8"	--								
22	Discharge Shut-off Valve	D64L – 2 5/8"	345,-	●	●	●					
23		D76L – 3 1/8"	345,-	●	●	●					
24		D105L – 4 1/8"	864,-								
25		D108L – 4 1/4"	864,-								

Item	Semi-Hermetic CSVH / CSVW Compact Screw Compressors with integrated Frequency Inverter		Series	CSVH2			CSVH3	CSVW2			Availability and Prices on Request	
			Type	CSVH24-125Y	CSVH25-160Y	CSVH26-200Y	CSVH37-240Y	CSVH38-290Y	CSVW24-125MY	CSVW25-160MY		CSVW26-200MY
			Price EUR	42.502,-	46.327,-	49.907,-						
Accessories		Additional Information										
26	Adapter and Shut-off Valve for Economiser Connection	with Pulsation Muffler	231,-	●	●	●						
27	Opto-electronic Oil Level Monitoring OLC-D1-S (Maximum Oil Level Monitoring)	24 V-AC/DC	280,-	●	●	●						
28	Adapter for external Oil Cooler	D22-7/8"	38,-	●	●	●						
29	Muffler for Discharge Line	SD67	477,-	●	●	●						
30		SD80	477,-	●	●	●						
31	Vibration Dampers	Elastomer Damper Elements	157,-	●	●	●						
32	BEST Converter - for "BITZER Electronic Service Tool"	Interface Converter Device with Cable Kit; Part-No. 34431401	436,-	●	●	●						



A large rectangular area filled with a light gray dot grid pattern, intended for handwritten notes.



Item	Semi-Hermetic Screw Compressors HS Series		Product Series		Additional Information
			HS		
			HS53 HS64 HS74	HS85	
Extent of Delivery					
1	Compressor Motor with PTC Sensors	Part Winding Type Δ/ΔΔ	S	S	380-415 V-3-50 Hz 440-480 V-3-60 Hz
2	Connection Suction Line	Braze and Weld Bushing		S	
3		Shut-off Valve	S		
4	Connection Discharge Line	Braze and Weld Bushing	S	S	
5	Connection for Economiser	Sealing Screw or Flange	S	S	
6	Connection for Oil Injection	Rotalock Connection	S	S	
7	Oil Management	external System	S		Solenoid Valve; Filter; Flow Switch; SE-B2; Electrolytic Capacitor; Sight Glass
8		internal System		S	integrated Oil Management; accessible Filter; 2x SE-B2; Electrolytic Capacitor and Sight Glass
9	Motor Protection Device	SE-E1	S	S	230/115 V-1-50/60 Hz
10	Capacity Regulator with Solenoid Valves	Regulator Pistons - 2 steps	S		230 V-1-50 Hz
11		Slider System - 4x Control Valves		S	230 V-1-50/60 Hz
12	Terminal Box	Enclosure Class IP54	S	S	
13	Pressure Relief Valve(s)	-	S	S	
14	Check Valve	-	S	S	
15	Discharge Gas Temperature Sensor	PTC 100	S	S	

[illegible]



Item	Semi-Hermetic HSK / HSN Screw Compressors		Series	HSK / HSN																														
			Type																															
				Price EUR	HSK5343-30	HSN5343-20	HSK5353-35	HSN5353-25	HSK5363-40	HSN5363-30	HSK6451-40	HSN6451-50	HSK6451-40	HSN6451-40	HSK6461-60	HSN6461-50	HSK7451-50	HSN7451-60	HSK7451-70	HSN7451-60	HSK7461-80	HSN7461-70	HSK7471-70	HSN7471-90	HSK8551-80	HSN8551-110	HSK8561-90	HSN8561-125	HSK8571-110	HSN8571-140	HSK8581-125	HSN8581-160	HSK8591-140	HSN8591-180
	Accessories	Additional Information																																
29	Oil Flow Control OFC	230 V-1-50/60 Hz (replaces SE-B2)	192,-	●	●	●	●	●	●																									
30		115 V-1-50/60 Hz (replaces SE-B2)	192,-	●	●	●	●	●	●																									
31		24 V-1-50/60 Hz (replaces SE-B2)	192,-	●	●	●	●	●	●	●																								
32		24 V-DC (replaces SE-B2)	192,-	●	●	●	●	●	●	●																								
33	Adapter and Shut-off Valve for Economiser Connection	-	225,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
34		with ECO Suction Line	325,-																					●	●	●	●	●	●	●	●	●	●	●
35	Adapter for Liquid Injection	-	41,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
36		with integral Nozzle	241,-																					●	●	●	●	●	●					
37	Shut-off Valve for Oil Injection	-	69,-																				●	●	●	●	●	●	●	●	●	●	●	●
38	Vibration Dampers	Elastomer Damper Elements	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S											
39			157,-																					●	●	●	●	●	●	●	●	●	●	●
40	Heating Device for Terminal Box	230 V / 30 W	190,-							●	●	●	●	●	●	●	●	●	●	●	●	●	●											
41		115 V / 30 W	190,-							●	●	●	●	●	●	●	●	●	●	●	●	●	●											
42	Suction Line Bushing	D54L – 2 1/8"	--	○	○	○	○	○	○	○	○	○	○	○	○																			
43		D76L – 3 1/8"	51,-													○	○	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	
44		D89L – 3 1/2"	51,-																				●	●	●	●	●	●	●	●	●	●	●	
45		D105L – 4 1/8"	--																					●	●	●	●	●	●	●	●	●	●	●
46		D108L – 4 1/4"	51,-																					●	●	●	●	●	●	●	●	●	●	●
47	Suction Shut-off Valve	D54L – 2 1/8"	--	S	S	S	S	S	S	S	S	S	S	S	S																			
48		D76L – 3 1/8"	864,-													S	S	S	S	S	S	S	S	●	●	●	●	●	●	●	●	●	●	
49		D89L – 3 1/2"	864,-																					●	●	●	●	●	●	●	●	●	●	●
50		D105L – 4 1/8"	864,-																					●	●	●	●	●	●	●	●	●	●	●
51		D108L – 4 1/4"	864,-																					●	●	●	●	●	●	●	●	●	●	●
52	Discharge Line Bushing	D42L – 1 5/8"	--	S	S	S	S	S	S	S	S	S	S	S	S																			
53		D54L – 2 1/8"	--													S	S	S	S	S	S	S	S											
54		D64L – 2 5/8"	51,-																					●	●	●	●	●	●	●	●	●	●	●
55		D76L – 3 1/8"	--																					S	S	S	S	S	S	S	S	S	S	S
56	Discharge Shut-off Valve	D42L – 1 5/8"	88,-	●	●	●	●	●	●	●	●	●	●	●	●																			
57		D54L – 2 1/8"	144,-													●	●	●	●	●	●	●	●											
58		D64L -2 5/8"	345,-																					●	●	●	●	●	●	●	●	●	●	●
59		D76L – 3 1/8"	345,-																					●	●	●	●	●	●	●	●	●	●	●



A large rectangular area filled with a light gray dot grid pattern, intended for handwritten notes.



Item	Open Drive Screw Compressors		Product Series						Additional Information
			OS			OSA for NH ₃			
			OS53	OS74	OS85	OSA53	OSA74	OSA85	
Extent of Delivery									
1	Connection Suction Line	Braze and Weld Bushing			S			S	
2		Shut-off Valve	S	S		S	S		
3	Connection Discharge Line	Braze and Weld Bushing	S	S	S	S	S	S	
4	Connection for Economiser	Sealing Screw or Flange	S	S	S	S	S	S	
5	Connection for Oil Injection	Rotalock Connection	S	S	S	S	S		
6		Shut-off Valve						S	
7	Oil Management	external System	S	S					Solenoid Valve; Filter; Flow Switch; SE-B2; Electrolytic Capacitor; Sight Glass
8						S	S		Solenoid Valve; Filter; Flow Switch; SE-B2; Electrolytic Capacitor
9		internal System			S				integrated Oil Management; accessible Filter; 2x SE-B2; Electrolytic Capacitor; Sight Glass
10								S	integrated Oil Management; accessible Filter; 2x SE-B2; Electrolytic Capacitor
11	Capacity Regulator with Solenoid Valves	Regulator Pistons - 2 Steps (OS.7441 - 1 Step)		S			S		230 V-1-50 Hz
12		Slider System - 4x Control Valves			S			S	230 V-1-50/60 Hz
13	Pressure Relief Valve(s)	-	S	S	S	S	S	S	
14	Check Valve	-	S	S	S	S	S	S	
15	Discharge Gas Temperature Sensor	PTC 100	S	S	S	S	S	S	

Item	Open Drive OSK(A) / OSN(A) Screw Compressors		Series	OSK / OSN																										
			Type	OSN8591	OSK8591	OSK8581	OSN8571	OSK8571	OSK8561	OSK8551	OSN7471	OSK7471	--	OSN7461	OSK7461	--	OSN7451	OSK7451	--	OSN7441	OSK7441	OSN5361	OSK5361	OSN5351	OSK5351	OSN5341	OSK5341			
			Price EUR	26.240,-	26.240,-	23.878,-	21.692,-	21.692,-	19.940,-	19.288,-	12.770,-	12.770,-	--	11.609,-	11.609,-	--	11.267,-	11.267,-	--	10.863,-	10.863,-	10.863,-	7.097,-	7.097,-	6.714,-	6.714,-	6.333,-	6.333,-		
			Series	OSKA / OSNA - NH ₃																										
			Type	OSNA8591	OSKA8591	OSKA8581	OSNA8571	OSKA8571	OSKA8561	OSKA8551	OSMA7472	OSKA7472	OSHA7472	OSMA7462	OSKA7462	OSHA7462	OSMA7452	OSKA7452	OSHA7452	--	--	--	OSMA5361	OSKA5361	OSNA5351	OSKA5351	OSNA5341	OSKA5341		
			Price EUR	27.216,-	27.216,-	24.855,-	22.668,-	22.668,-	20.917,-	20.267,-	14.385,-	14.385,-	14.385,-	13.225,-	13.225,-	13.225,-	13.225,-	12.832,-	12.832,-	12.832,-	--	--	--	8.552,-	8.552,-	8.061,-	8.061,-	7.596,-	7.596,-	
Accessories		Additional Information																												
1	Coupling Housing for B3/B5 IEC Motors	GS5070 // Motor Flange D350	465,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
2		GS5080 // Motor Flange D400	465,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
3		GS7090 // Motor Flange D400	746,-																											
4		GS7100 // Motor Flange D450	746,-																											
5	Selection see Applications Manuals SH-500 and SH-510	GS7110 // Motor Flange D450	842,-																											
6		GS7120 // Motor Flange D550	842,-																											
7		GS7140 // Motor Flange D600	983,-																											
8	Couplings	KS620 // pilot-drilled	635,-	●	●	●	●	●	●																					
9		KS620 // Shaft Bore D42	635,-	●	●	●	●	●	●																					
10		KS620 // Shaft Bore D48	635,-	●	●	●	●	●	●																					
11		KS620 // Shaft Bore D55	635,-	●	●	●	●	●	●																					
12		KS620 // Shaft Bore D60	635,-	●	●	●	●	●	●																					
13		KS720 // pilot-drilled	635,-																											
14		KS720 // Shaft Bore D48	635,-																											
15		KS720 // Shaft Bore D55	635,-																											
16		KS720 // Shaft Bore D60	635,-																											
17		Selection see Applications Manuals SH-500 and SH-510	KS730 // pilot-drilled	1.016,-																										
18			KS730 // Shaft Bore D55	1.016,-																										
19			KS730 // Shaft Bore D60	1.016,-																										
20			KS730 // Shaft Bore D65	1.016,-																										
21			KS800 // pilot-drilled	1.016,-																										
22			KS800 // Shaft Bore D55	1.016,-																										
23			KS800 // Shaft Bore D65	1.016,-																										
24		KS800 // Shaft Bore D60	1.016,-																											
25		KS800 // Shaft Bore D70	1.016,-																											



Item	Open Drive OSK(A) / OSN(A) Screw Compressors		Series	OSK / OSN																								
			Type	OSK5341	OSN5341	OSK5351	OSN5351	OSK5361	OSN5361	OSK7441	OSN7441	--	OSK7451	OSN7451	--	OSK7461	OSN7461	--	OSK7471	OSN7471	OSK8551	OSN8551	OSK8571	OSN8571	OSK8581	OSN8581	OSK8591	OSN8591
			Price EUR	6.333,-	6.333,-	6.714,-	6.714,-	7.097,-	7.097,-	10.863,-	10.863,-	--	11.267,-	11.267,-	--	11.609,-	11.609,-	--	12.770,-	12.770,-	19.288,-	19.940,-	21.692,-	21.692,-	23.878,-	23.878,-	26.240,-	26.240,-
			Series	OSKA / OSNA - NH ₃																								
			Type	OSKA5341	OSNA5341	OSKA5351	OSNA5351	OSKA5361	OSNA5361	--	--	--	OSHA7452	OSNA7452	OSHA7462	OSNA7462	OSHA7472	OSNA7472	OSKA8551	OSNA8551	OSKA8561	OSNA8561	OSKA8571	OSNA8571	OSKA8581	OSNA8581	OSKA8591	OSNA8591
			Price EUR	7.596,-	7.596,-	8.061,-	8.061,-	8.552,-	8.552,-	--	--	--	12.832,-	12.832,-	13.225,-	13.225,-	14.385,-	14.385,-	20.267,-	20.267,-	20.917,-	20.917,-	22.668,-	22.668,-	24.855,-	24.855,-	27.216,-	27.216,-
Accessories		Additional Information																										
26	Oil Flow Control OFC incl. SE-B2 for Discharge Gas Temperature Monitoring		230 V-1-50/60 Hz	275,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
115 V-1-50/60 Hz			275,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
24 V-1-50/60 Hz			275,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
24 V-DC			275,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
30	Capacity Control / Start Unloader		1 Regulating Stage	684,-	•	•	•	•	•	•	S	S																
2 Regulating Stages			--																									
Slider System			--																	S	S	S	S	S	S	S	S	
33	Coil for Capacity Control / Start Unloader		230 V-1-60 Hz, 1x	52,-	•	•	•	•	•	•	•	•	•															
115 V-1-60 Hz, 1x			52,-	•	•	•	•	•	•	•	•	•	•															
115 V-DC, 1x			52,-	•	•	•	•	•	•	•	•	•	•															
48 V-DC, 1x			52,-	•	•	•	•	•	•	•	•	•	•															
24 V-1-50 Hz, 1x			52,-	•	•	•	•	•	•	•	•	•	•															
24 V-DC, 1x			52,-	•	•	•	•	•	•	•	•	•	•															
39	Coils for Capacity Control / Start Unloader		230 V-1-50 Hz, 2x	--									S	S	S	S	S	S	S									
230 V-1-60 Hz, 2x			104,-											•	•	•	•	•	•	•								
115 V-1-60 Hz, 2x			104,-											•	•	•	•	•	•	•								
115 V-DC, 2x			104,-											•	•	•	•	•	•	•								
48 V-DC, 2x			104,-											•	•	•	•	•	•	•								
24 V-1-50 Hz, 2x			104,-											•	•	•	•	•	•	•								
24 V-DC, 2x			104,-											•	•	•	•	•	•	•								
230 V-1-50/60 Hz, 4x			--																	S	S	S	S	S	S	S	S	
115 V-1-60 Hz, 4x			207,-																	•	•	•	•	•	•	•	•	•
24 V-1-50/60 Hz, 4x			207,-																	•	•	•	•	•	•	•	•	•
24 V-DC, 4x			207,-																	•	•	•	•	•	•	•	•	•
115 V-DC, 4x			207,-																	•	•	•	•	•	•	•	•	•
48 V-DC, 4x			207,-																	•	•	•	•	•	•	•	•	•
52	Coil for Oil Solenoid Valve		230 V-1-50 Hz	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S									
230 V-1-60 Hz			52,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
115 V-1-60 Hz			52,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
115 V-DC			52,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
48 V-DC			52,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
24 V-1-50 Hz			52,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
24 V-DC			52,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								

Item	Open Drive OSK / OSN Screw Compressors		Series	OSK / OSN																							
			Type	OSK5341	OSN5341	OSK5351	OSN5351	OSK5361	OSN5361	OSK7441	OSN7441	--	OSK7451	OSN7451	--	OSK7461	OSN7461	--	OSK7471	OSN7471	OSK8551	OSK8561	OSK8571	OSN8571	OSK8581	OSK8591	OSN8591
			Price EUR	6.333,-	6.333,-	6.714,-	6.714,-	7.097,-	7.097,-	10.863,-	10.863,-	--	11.267,-	11.267,-	--	11.609,-	11.609,-	--	12.770,-	12.770,-	19.288,-	19.940,-	21.692,-	21.692,-	23.878,-	26.240,-	26.240,-
	Accessories	Additional Information																									
59	Adapter and Shut-off Valve for Economiser Connection	-	225,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
60			231,-																	●	●	●	●	●	●	●	
61	Shut-off Valve for Oil Injection	-	69,-																	●	●	●	●	●	●	●	
62	Adapter with Nozzle for Liquid Injection	-	241,-																	●	●	●		●	●		
63	Suction Line Bushing	D54L – 2 1/8"	--	○	○	○	○	○	○																		
64		D76L – 3 1/8"	51,-							○	○		○	○		○	○		○	○	●	●	●	●	●	●	●
65		D89L – 3 1/2"	51,-																		●	●	●	●	●	●	●
66		D105L – 4 1/8"	--																		S	S	S	S	S	S	S
67		D108L – 4 1/4"	51,-																		●	●	●	●	●	●	●
68	Suction Shut-off Valve	D54L – 2 1/8"	--	S	S	S	S	S	S																		
69		D76L – 3 1/8"	864,-								S	S		S	S		S	S		S	S	●	●	●	●	●	●
70		D89L – 3 1/2"	864,-																		●	●	●	●	●	●	●
71		D105L – 4 1/8"	864,-																		●	●	●	●	●	●	●
72		D108L – 4 1/4"	864,-																		●	●	●	●	●	●	●
73	Discharge Line Bushing	D42L – 1 5/8"	--	S	S	S	S	S	S																		
74		D54L – 2 1/8"	--								S	S		S	S		S	S		S	S						
75		D64L – 2 5/8"	51,-																		●	●	●	●	●	●	●
76		D76L – 3 1/8"	--																		S	S	S	S	S	S	S
77	Discharge Shut-off Valve	D35L – 1 3/4"	88,-	●	●	●	●	●	●																		
78		D54L – 2 1/8"	144,-								●	●		●	●		●	●		●	●						
79		D64L -2 5/8"	345,-																		●	●	●	●	●	●	●
80		D76L – 3 1/8"	345,-																		●	●	●	●	●	●	●



Item	Open Drive OSKA / OSNA - NH ₃ Screw Compressors		Series	OSKA / OSNA - NH ₃																								
			Type	OSKA5341	OSNA5341	OSKA5351	OSNA5351	OSKA5361	OSNA5361	--	--	OSHA7452	OSKA7452	OSNA7452	OSHA7462	OSKA7462	OSNA7462	OSHA7472	OSKA7472	OSNA7472		OSHA8551	OSKA8551	OSNA8551	OSKA8571	OSNA8571	OSKA8591	OSNA8591
				Price EUR	7.596,-	7.596,-	8.061,-	8.061,-	8.552,-	8.552,-	--	--	12.832,-	12.832,-	12.832,-	13.225,-	13.225,-	13.225,-	14.385,-	14.385,-		14.385,-	20.267,-			22.668,-	22.668,-	24.855,-
Accessories		Additional Information																										
81	Adapter and Shut-off Valve for Economiser Connection	-	428,-	●	●	●	●	●	●				●	●	●	●	●	●	●									
82			284,-																	●	●	●	●	●	●	●	●	
83	Shut-off Valve for Oil Injection	-	--																	S	S	S	S	S	S	S	S	
84	Suction Line Bushing	DN 50	51,-	●	●	●	●	●	●																			
85		DN 80	51,-									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
86		DN 100	--																	S	S	S	S	S	S	S	S	
87	Suction Shut-off Valve	DN 50	--	S	S	S	S	S	S																			
88		DN 80	--									S	S	S	S	S	S	S	S									
89		DN 100	929,-																	●	●	●	●	●	●	●	●	
90	Discharge Line Bushing	DN 40	--	S	S	S	S	S	S																			
91		DN 50	--									S	S	S	S	S	S	S	S									
92		DN 65	51,-																	●	●	●	●	●	●	●	●	
93		DN 80	--																	S	S	S	S	S	S	S	S	
94	Discharge Shut-off Valve	DN 32	138,-	●	●	●	●	●	●																			
95		DN 50	199,-									●	●	●	●	●	●	●	●									
96		DN 80	428,-																	●	●	●	●	●	●	●	●	



A large rectangular area filled with a light gray dot grid pattern, intended for handwritten notes.



Item	Booster Applications Open Drive Screw Compressors - Explosion Proof Design		Product Series									Additional Information	
			HSKB Booster Applications		OSKB Booster Applications			OSKAB NH ₃ Booster Applications			OS(A)74EX Explosion Proof Design		
			HSKB53 HSKB64 HSKB74	HSKB85	OSKB53	OSKB74	OSKB85	OSKAB53	OSKAB74	OSKAB85	OS74EX		OSA74EX
	Extent of Delivery												
1	Compressor Motor with PTC Sensors	Part Winding Type Δ/ΔΔ	S	S								380-415 V-3-50 Hz 440-480 V-3-60 Hz	
2	Connection Suction Line	Braze and Weld Bushing		S			S			S			
3		Shut-off Valve	S		S	S		S	S		S	S	
4	Connection Discharge Line	Braze and Weld Bushing	S	S	S	S	S	S	S	S	S		
5	Connection for Oil Injection	Rotalock Connection	S	S	S	S	S	S		S	S		
6		Shut-off Valve							S				
7	Oil Management	external System	S		S	S						Solenoid Valve; Filter; Flow Switch; SE-B2; Electrolytic Capacitor; Sight Glass	
8								S	S			Solenoid Valve; Filter; Flow Switch; SE-B2; Electrolytic Capacitor	
9		internal System		S			S					integrated Oil Management (without Oil Stop Valve); accessible Filter; 2x SE-B2; Sight Glass; Solenoid Valve	
10										S		integrated Oil Management (without Oil Stop Valve); accessible Filter; 2x SE-B2; Solenoid Valve	
11		external System									S	Solenoid Valve; Filter; Flow Switch; OFC; Sight Glass	
12												S	Solenoid Valve; Filter; Flow Switch; OFC
13	Motor Protection Device	SE-E1	S	S								for 230/115 V-1-50/60 Hz	
14	Capacity Regulator with Solenoid Valves	Regulator Pistons, 2 steps (OS.7441.: 1 step)	S			S			S		S	S	230 V-1-50 Hz
15		Slider System, 4x Valves		S			S			S			230 V-1-50/60 Hz
16	Terminal Box	Enclosure Class IP54	S	S									
17	Pressure Relief Valve(s)	-	S	S	S	S	S	S	S	S	S		
18	Check Valve	-	S	S	S	S	S	S	S	S	S		
19	Discharge Gas Temperature Sensor	PTC 100	S	S	S	S	S	S	S	S	S		

Item	Semi-Hermetic and Open Drive Screw Compressors for Booster Applications		Series	HSKB									OSKB								OSKAB - NH ₃															
			Type	HSKB343-15	HSKB353-20	HSKB363-25	HSKB6451-40	HSKB6461-40	HSKB7451-40	HSKB7461-40	HSKB7471-50	HSKB8551-60	HSKB8561-70	HSKB8571-80	OSKB341	OSKB351	OSKB361	OSKB7451	OSKB7461	OSKB7471	OSKB8551	OSKB8561	OSKB8571	OSKB8581	OSKB8591	OSKAB341	OSKAB351	OSKAB361	OSKAB7452	OSKAB7462	OSKAB7472	OSKAB8551	OSKAB8561	OSKAB8571	OSKAB8581	OSKAB8591
			Price EUR	9.278,-	9.278,-	9.804,-	13.005,-	13.858,-	14.581,-	15.431,-	17.699,-	22.032,-	23.342,-	25.828,-	6.712,-	6.809,-	7.189,-	11.925,-	12.266,-	13.427,-	20.203,-	20.853,-	22.606,-	25.072,-	27.552,-	8.070,-	8.574,-	9.027,-	13.490,-	13.884,-	15.043,-	21.180,-	21.832,-	23.583,-	26.098,-	28.577,-
Accessories		Additional Information																																		
1	Motor for Special Voltage	available Motors see Technical Information ST-410	➡	464,-	464,-	490,-	650,-	693,-	729,-	772,-	885,-	1.102,-	1.167,-	1.291,-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
2	Protection Device SE-E1	230/115 V-1-50/60 Hz	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
3		24 V-1-50/60 Hz	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
4	Protection Device SE-E2	24 V .. 230 V-1-50/60 Hz, Functions like SE-E1, suitable for Frequency Inverter Operation (replaces SE-E1)	187,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
5	Protection Device SE-C1	24 V .. 230 V-1-50/60 Hz, enhanced Protection Functions (replaces SE-E1 and SE-B2)	301,-				•	•	•	•	•																									
6	Protection Device SE-C2		301,-											•	•	•																				
7	Oil Flow Control OFC	230 V-1-50/60 Hz (replaces SE-B2)	192,-	•	•	•																														
8		115 V-1-50/60 Hz (replaces SE-B2)	192,-	•	•	•																														
9	Oil Flow Control OFC incl. SE-B2 for Discharge Gas Temperature Monitoring	230 V-1-50/60 Hz	275,-												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
10		115 V-1-50/60 Hz	275,-													•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
11	Bridges for Direct On Line Start	-	26,-	•	•	•	•	•	•	•	•																									
12			37,-										•	•	•																					
13	Capacity Control / Start Unloader	1 Regulating Stage (Coil: 230V-1-50 Hz)	684,-												•	•	•								•	•	•									
14		2 Regulating Stages (Coils: 230 V-1-50 Hz)	-	S	S	S	S	S	S	S	S							S	S	S							S	S	S							
15		Slider System (Coils: 230 V-1-50/60 Hz)	-										S	S	S						S	S	S	S	S						S	S	S	S	S	
16	Coil(s) for Capacity Control / Start Unloader	115 V-1-60 Hz, 1x	52,-												•	•	•								•	•	•									
17		115 V-1-60 Hz, 2x	104,-	•	•	•	•	•	•	•	•							•	•	•						•	•	•								
18		115 V-1-60 Hz, 4x	207,-										•	•	•										•	•	•	•	•			•	•	•	•	
19	Coil for Oil Solenoid Valve	230 V-1-50 Hz	--	S	S	S	S	S	S	S	S				S	S	S	S	S	S					S	S	S	S	S	S						
20		115 V-1-60 Hz	52,-	•	•	•	•	•	•	•	•				•	•	•	•	•	•					•	•	•	•	•	•						
21	Shut-off Valve for Oil Injection	-	69,-									•	•	•										•	•	•	•	•				S	S	S	S	
22	Vibration Dampers	Elastomer Damper Elements	157,-	S	S	S	S	S	S	S	S	•	•	•																						
23	Heating Device for Terminal Box	230 V / 30 W	190,-				•	•	•	•	•																									
24		115 V / 30 W	190,-				•	•	•	•	•																									



Item	Open Drive Screw Compressors OS(A)74EX Explosion Proof Design Details Explosion Proof Design: see Operating Instruction SB-509		Series	OS74EX							OSA74EX - NH ₃						
			Type	OSK7441EX	OSN7441EX	OSK7451EX	OSN7451EX	OSK7461EX	OSN7461EX	OSK7471EX	OSN7471EX	OSK7452EX	OSN7452EX	OSK7462EX	OSN7462EX	OSK7472EX	OSN7472EX
			Price EUR	16.786,-	16.786,-	17.191,-	17.191,-	17.533,-	17.533,-	18.692,-	18.692,-	18.756,-	18.756,-	19.150,-	19.150,-	20.309,-	20.309,-
	Accessories	Additional Information															
1	Coupling Housing for B3/B5 IEC Motors	GS7090 // Motor Flange D400	746,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2		GS7100 // Motor Flange D450	746,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3		GS7110 // Motor Flange D450	842,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	Selection see Applications Manuals SH-500 and SH-510	GS7120 // Motor Flange D550	842,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5		GS7140 // Motor Flange D600	983,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6	Couplings Ex-Version Selection see Applications Manuals SH-500 and SH-510	KS720EX // Shaft Bore D48	714,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7		KS720EX // Shaft Bore D55	714,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8		KS720EX // Shaft Bore D60	714,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9		KS730EX // Shaft Bore D55	1.136,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10		KS730EX // Shaft Bore D60	1.136,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
11		KS730EX // Shaft Bore D65	1.136,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12	Oil Flow Control OFC incl. SE-B2 for Discharge Gas Temperature Monitoring	230 V-1-50/60 Hz	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S
13		115 V-1-50/60 Hz	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○
14		24 V-1-50/60 Hz	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○
15		24 V-DC	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○
16	Coil(s) Ex-Version for Capacity Control / Start Unloader	230 V-1-50/60 Hz, 1x	3.870,-	•	•												
17		115 V-1-50/60 Hz, 1x	3.870,-	•	•												
18		24 V AC/DC, 1x	3.870,-	•	•												
19		230 V-1-50/60 Hz, 2x	7.741,-			•	•	•	•	•	•	•	•	•	•	•	•
20		115 V-1-50/60 Hz, 2x	7.741,-			•	•	•	•	•	•	•	•	•	•	•	•
21		24 V AC/DC, 2x	7.741,-			•	•	•	•	•	•	•	•	•	•	•	•
22	Special Voltage Coil Ex-Version for Oil Solenoid Valve	230 V-1-50/60 Hz, 1x	2.948,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
23		115 V-1-50/60 Hz, 1x	2.948,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
24		24 V AC/DC, 1x	2.948,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25	Adapter and Shut-off Valve for Economiser Connection	-	225,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Item	Oil Separators		Oil Separators		Combined Oil Separators		Oil Separators Special Explosion Proof Design		Additional Information
			OA .. for HFC and R22	OA .. A for NH ₃	OAC .. A for NH ₃ - vertical (with integrated Coalescent Filter Elements)	OAHC .. A for NH ₃ - horizontal (with integrated Coalescent Filter Elements)	OA .. EX for HFC and R22	OA .. AEX for NH ₃	
Extent of Delivery									
1	Inlet Connection	Pipe Connection (Rotalock or Flange)	S	S	S	S	S	S	with Brazing Bushing
2	Outlet Connection	Pipe Connection (Rotalock or Flange)	S	S	S	S	S	S	with Brazing Bushing
3	Connection for Pressure Relief Valve	1 1/4" - 12 UNF - external Thread 3/8" - 18 NPTF - internal Thread	S	S	S		S	S	
4		Pipe Connection				S			
5	Sight Glass	1x	S	S	S		S	S	
6		2x				S			
7	Opto-electronic Oil Level Monitoring OLC-D1-D	Minimum	S	S	S				230 V-1-50/60 Hz
8	Opto-electronic Oil Level Monitoring OLC-D1-D	1x Minimum and 1x Maximum				S			
9	Oil Level Monitoring	mechanical Float Switch					S	S	
10	Oil Heater(s)	Standard	S	S	S	S			230 V-1-50/60 Hz
11		Explosion Proof Design					S	S	
12	Oil Thermostat	Standard	S	S	S	S	S	S	230 V-1-50/60 Hz
13	Oil Outlet Connection(s)	Pipe Connection	S		S	S	S		with Brazing Bushing
14		Shut-off Valve		S				S	with Brazing Bushing
15	Oil Service Connection	Pipe Connection				S			
16		Shut-off Valve	S	S	S		S	S	with Brazing Bushing

[illegible]

Item	Air-cooled and Water-cooled Oil Coolers for Screw Compressors		Series	Oil Coolers Air-cooled		Oil Coolers Water-cooled and Seawater-cooled ("B")									
			Type	Oil 200	Oil 300	Oil 600	OW401	OW401B	OW501	OW501B	OW781	OW781B	OW941	OW941B	
	Copper/Copper-Nickel Surcharge: For Products containing Cu or Cu-Ni a Surcharge applies. This Surcharge is net according to DEL Note and not Subject to Discount. Surcharge = DEL Note (EUR/kg) x Cu / Cu-Ni Weight (kg)		Part No.	35310004		35310104	35310404	-							
			Price EUR	3.154,-	4.162,-	7.465,-	2.273,-	2.956,-	2.641,-	3.447,-	4.082,-	5.968,-	4.815,-	7.168,-	
	Cu (kg)		10,50	13,20	19,90	11,20		15,00		21,30		28,50			
			Cu-Ni (kg)						11,20		15,00		21,30	28,50	
Accessories			Additional Information		--										
28	Oil Cooler Fan for 230/400 V-3-50/60 Hz		-		--	S	S	S	-						



Item	Hermetic Scroll Compressors		Product Series				Additional Information
			ESH	ORBIT			
				ESH7	GSD6	GSD8	
	Extent of Delivery						
1	Compressor Motor with PTC Sensors	Star/Delta Type Y/Δ	S	S	S	S	380-420 V-3-50 Hz 440-480 V-3-60 Hz
2	Connection Suction Line	Direct Brazing	S	S	S	S	
3	Connection Discharge Line	Direct Brazing	S	S	S	S	
4	Oil Charge	BVC32		S	S	S	Polyvinyl Ether Oil
5		BSE35K	S				Ester Oil
6	Connection for Oil Service Valve	-	S	S	S	S	
7	Sight Glass	-	S	S	S	S	
8	Motor Protection Device	SE-B3	S	S	S	S	230/115 V-1-50/60 Hz
9	Terminal Box	Enclosure Class IP54	S	S	S	S	

Item	Hermetic Scroll Compressors		Series	Series 7					Orbit 6				Orbit 8				Orbit 8 Boreal							
			Type	ESH725BY	ESH730BY	ESH736BY	ESH743BY	GSD60120VAB	GSD60137VAB	GSD60154VAB	GSD60182VAB	GSD60235VAB	GSD80182VAB	GSD80235VAB	GSD80295VAB	GSD80385VAB	GSD80421VAB	GSD80485VAB	GSD80235VWB	GSD80295VWB	GSD80385VWB	GSD80421VWB	GSD80485VWB	
																								Price EUR
	Accessories	Additional Information																						
1	Motor for Special Voltage	available Motors see Technical Information EST-410	➔	145,-	153,-	162,-	182,-	168,-	175,-	182,-	193,-	227,-	212,-	231,-	263,-	294,-	322,-	348,-						
2	Oil Charge B5.2	"Y" Compressor Designation omitted		○	○	○	○																	
3	Oil Heater	65 W, 230 V	50,-	●	●	●	●																	
4		65 W, 115 V	50,-	●	●	●	●																	
5		90 W, 230 V, Band Heater	57,-					●	●	●	●	●												
6		90 W, 115 V, Band Heater	57,-					●	●	●	●	●												
7		90 W, 460 V, Band Heater	57,-					●	●	●	●	●												
8		90 W, 575 V, Band Heater	57,-					●	●	●	●	●												
9		140 W, 230 V, Band Heater	65,-										●	●	●	●	●	●	●	●	●	●	●	●
10		140 W, 115 V, Band Heater	65,-										●	●	●	●	●	●	●	●	●	●	●	●
11	140 W, 460 V, Band Heater	65,-										●	●	●	●	●	●	●	●	●	●	●	●	
12	140 W, 575 V, Band Heater	65,-										●	●	●	●	●	●	●	●	●	●	●	●	
13	Discharge Gas Temperature Sensor	PTC 140	140,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
14	Motor Protection Device SE-E1	230/115 V-1-50/60 Hz	118,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
15		24 V-1-50/60 Hz	118,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
16	Motor Protection Device SE-B2	24 V-1-50/60 Hz	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
17		24 V-DC	--					○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
18	Rotalock Connections at Housing (Standard: Direct Brazing Connections)	ESH: "B" Designation omitted	146,-	●	●	●	●																	
19	Brazing Adapter Kit	for Rotalock Connections, Part-No. 31321001	76,-					●	●	●	●	●												
20		for Rotalock Connections, Part-No. 31321002	86,-										●	●	●	●	●	●	●	●	●	●	●	
21	Rotalock Adapters with Bushings Kit for Suction and Discharge Side including Gaskets; GSD: Brazing Adapter Kit required; ESH: Version with Rotalock Connections required	D28L / D22L	46,-	●	●	●																		
22		D35L / D22L	46,-	●	●	●																		
23		D35L / D28L	118,-				●																	
24		D42L / D28L	118,-				●																	
25		D42L / D35L	118,-										●	●	●	●	●	●	●	●	●	●	●	
26	Rotalock Shut-off Valves Kit for Suction and Discharge Side including Gaskets; GSD: Brazing Adapter Kit required; ESH: Version with Rotalock Connections required	D28L / D22L	135,-	●	●	●																		
27		D35L / D22L	135,-	●	●	●																		
28		D35L / D28L	246,-				●																	
29		D42L / D28L	246,-				●																	
30		D42L / D35L	246,-										●	●	●	●	●	●	●	●	●	●	●	
31	Sound Jacket	-	590,-										●	●	●	●	●	●	●	●	●	●	●	



Item	Hermetic Scroll Compressors		Series	Series 7				Orbit 6				Orbit 8				Orbit 8 Boreal			
			Type	ESH725BY	ESH730BY	ESH736BY	ESH743BY	GSD60120VAB	GSD60137VAB	GSD60154VAB	GSD60182VAB	GSD60235VAB	GSD80182VAB	GSD80235VAB	GSD80295VAB	GSD80385VAB	GSD80421VAB	GSD80485VAB	GSD80485VWB
			Price EUR	2.908,-	3.068,-	3.231,-	3.635,-	3.367,-	3.495,-	3.634,-	3.868,-	4.532,-	4.237,-	4.623,-	5.264,-	5.883,-	6.432,-	6.968,-	6.968,-
	Tandem / Trio Assembly Kits	Additional Information																	
32	Vibration Dampers	for Single Operation, Kit for 1 Compressor (4 damper elements)	25,-	S	S	S	S	•	•	•	•	•	•	•	•	•	•	•	•
33		for Tandem or Trio Operation, Kit for 1 Compressor (4 damper elements)	25,-	•	•	•	•						•	•	•	•	•	•	•
34		for Tandem Operation, Kit for 2 Compressors (6 damper elements)	39,-					•	•	•	•	•							
35		for Trio Operation, Kit for 3 Compressors (8 damper elements)	51,-					•	•	•	•	•							
36	Kits for Tandem and Trio Operation	Rails and Piping Components	--	Availability and Prices on Request															



A large rectangular area filled with a light gray dot grid pattern, intended for handwritten notes.



Item	Pressure Vessels		Condensers Water-cooled		Condensers Seawater-cooled		Horizontal Liquid Receivers				Vertical Liquid Receivers					Additional Information
			K033N .. K4803T	K033NP .. K4803TP (for R290 / R1270)	K033NB .. K4803TB	K033NBP .. K4803TBP (for R290 / R1270)	F062H .. F3102N F302G .. F1602G	F062HP .. F3102NP (for R290 / R1270)	F202HA .. F3102NA (for NH ₃)	F302K .. F1602K (for CO ₂)	FS36 .. FS126	FS102 .. FS5502	FS36P .. FS126P (for R290 / R1270)	FS102P .. FS5502P (for R290 / R1270)	FS302K .. FS1602K (for CO ₂)	
			Extent of Delivery													
1	Inlet Connection	Brazing Connection	S	S	S	S	S	S	S	S		S		S	S	Rotalock or Flange
2		Direct Brazing Connection									S		S			
3	Outlet Connection	Rotalock with Sealing Nut									S		S			
4		Shut-off Valve	S	S	S	S	S	S	S	S		S		S	S	
5	Second Liquid Outlet Connection	-			S	S										on Bottom Side
6	Connection for Pressure Relief Valve	1 1/4" - 12 UNF - external Thread 3/8" - 18 NPTF - internal Thread	S	S	S	S	S	S	S	S					S	
7		1 1/4" - 12 UNF - external Thread										S		S		
8	Lower Angle Brackets	-	S	S	S	S	S	S	S	S						not available for Types with "N" Designation
9	Lower Fixing Rails	-			S*	S*										* not standard for K033NB(P) & K073HB(P)
10	Upper Angle Brackets	for Compressor Mounting on Top; all Types with "H" and "T" Designation	S	S	S	S	S**	S**	S**	S**						** not available for Receivers with "N" Designation
11	Sight Glass(es)	-	S	S	S	S	S	S	S	S		S		S	S	
12	Piping	Copper	S	S												Copper / Copper-Nickel Surcharge applies
13		Copper-Nickel			S	S										
14	End Covers	Standard	S	S												K033N(P)(B) .. K373H(P)(B): for 2 and 4 pass Operation K573H(P)(B) .. K4803T(P)(B): for 4 pass Operation
15		Plastic coated			S	S										

Item	Water-cooled Shell & Tube Condensers		Series	Water-cooled														Seawater-cooled													
			Type	K033N	K073H	K123H	K203H	K283H	K373H	K573H	K813H	K1053H	K1353T	K1973T	K2923T	K3803T	K4803T	K033NB	K073HB	K123HB	K203HB	K283HB	K373HB	K573HB	K813HB	K1053HB	K1353TB	K1973TB	K2923TB	K3803TB	K4803TB
Price EUR			541,-	659,-	754,-	1.141,-	1.339,-	1.480,-	2.374,-	2.777,-	3.265,-	3.934,-	6.193,-	7.796,-	11.543,-	13.284,-	768,-	993,-	1.121,-	1.675,-	2.017,-	2.207,-	3.411,-	4.118,-	4.743,-	5.791,-	8.985,-	11.720,-	16.248,-	19.040,-	
Series			Water-cooled - R290 / R1270														Seawater-cooled - R290 / R1270														
Type			K033NP	K073HP	K123HP	K203HP	K283HP	K373HP	K573HP	K813HP	K1053HP	K1353TP	K1973TP	K2923TP	K3803TP	K4803TP	K033NBP	K073HBP	K123HBP	K203HBP	K283HBP	K373HBP	K573HBP	K813HBP	K1053HBP	K1353TBP	K1973TBP	K2923TBP	K3803TBP	K4803TBP	
Price EUR			567,-	691,-	792,-	1.199,-	1.406,-	1.554,-	2.492,-	2.916,-	3.429,-	4.131,-	6.502,-	8.186,-	12.120,-	13.949,-	807,-	1.042,-	1.176,-	1.759,-	2.118,-	2.317,-	3.582,-	4.323,-	4.980,-	6.081,-	9.434,-	12.307,-	17.060,-	19.992,-	
Cu (kg)			1,04	2,08	3,07	4,61	6,14	10,18	14,87	18,93	29,99	34,70	50,13	73,26	96,40	123,39		2,08	3,07	4,61	6,14	10,18	14,87	18,93	29,99	34,70	50,13	73,26	96,40	123,39	
Cu-Ni (kg)																	1,04														
Accessories			Additional Information	Price EUR																											
1	End Covers	universal for 2 and 4 pass Operation	--	S	S	S	S	S	S																						
2		for 4 pass Operation	--							S	S	S	S	S	S																
3		for 2 pass Operation	--							O	O	O	O	O	O																
4		Plastic coated	87,-	•	•	•										S	S	S													
5		for 2 and 4 pass Operation	117,-				•	•	•										S	S	S										
6		Plastic coated for 4 pass Operation	189,-							•	•	•	•										S	S	S	S					
7		Plastic coated for 2 pass Operation	189,-							•	•	•	•									O	O	O	O						
8		Plastic coated for 4 pass Operation	362,-											•	•	•										S	S	S	S		
9		Plastic coated for 2 pass Operation	362,-											•	•	•										O	O	O	O		
10	Inlet Connection	Pipe Connection D12L	--	S	S											S	S														
11		Shut-Off Valve D12L	74,-	•	•												•	•													
12		Pipe Connection D16L	51,-	•	•	S	S										•	•	S	S											
13		Shut-Off Valve D16L	74,-			•	•												•	•											
14		Pipe Connection D22L	51,-			•	•	S											•	•	S										
15		Shut-Off Valve D22L	74,-					•													•										
16		Pipe Connection D28L	51,-					•	S											•		S									
17		Shut-Off Valve D28L	184,-						•												•										
18		Pipe Connection D35L	51,-						•	S	S										•	S	S								
19		Shut-Off Valve D35L	184,-							•	•											•	•								
20		Pipe Connection D42L	51,-							•	•	S	S										•	•	S	S					
21		Shut-Off Valve D42L	184,-								•													•							
22		Pipe Connection D54L	51,-									•	•	S	S										•	•	S	S			
23		Shut-Off Valve D54L	225,-										•	•												•	•				
24		Pipe Connection D76L	51,-											•	•	S										•	•	S	S		
25		Shut-Off Valve D76L	462,-												•	•												•	•		



Item	Water-cooled Shell & Tube Condensers		Series	Water-cooled												Seawater-cooled															
			Type	K033N	K073H	K123H	K203H	K283H	K373H	K573H	K813H	K1053H	K1353T	K1973T	K2923T	K3803T	K4803T	K033NB	K073HB	K123HB	K203HB	K283HB	K373HB	K573HB	K813HB	K1053HB	K1353TB	K1973TB	K2923TB	K3803TB	K4803TB
			Price EUR	541,-	659,-	754,-	1.141,-	1.339,-	1.480,-	2.374,-	2.777,-	3.265,-	3.934,-	6.193,-	7.796,-	11.543,-	13.284,-	768,-	993,-	1.121,-	1.675,-	2.017,-	2.207,-	3.411,-	4.118,-	4.743,-	5.791,-	8.985,-	11.720,-	16.248,-	19.040,-
			Series	Water-cooled - R290 / R1270												Seawater-cooled - R290 / R1270															
			Type	K033NP	K073HP	K123HP	K203HP	K283HP	K373HP	K573HP	K813HP	K1053HP	K1353TP	K1973TP	K2923TP	K3803TP	K4803TP	K033NBP	K073HBP	K123HBP	K203HBP	K283HBP	K373HBP	K573HBP	K813HBP	K1053HBP	K1353TBP	K1973TBP	K2923TBP	K3803TBP	K4803TBP
Price EUR	567,-	691,-	792,-	1.199,-	1.406,-	1.554,-	2.492,-	2.916,-	3.429,-	4.131,-	6.502,-	8.186,-	12.120,-	13.949,-	807,-	1.042,-	1.176,-	1.759,-	2.118,-	2.317,-	3.582,-	4.323,-	4.980,-	6.081,-	9.434,-	12.307,-	17.060,-	19.992,-			
Accessories		Additional Information																													
26	Outlet Connection	Shut-off Valve D10L	--	S	S											S	S														
27		Shut-off Valve D12L	--			S												S													
28		Shut-Off Valve D16L	--				S												S												
29		Shut-off Valve D22L	--					S	S										S	S											
30		Shut-off Valve D28L	--						S	S										S		S									
31		Shut-off Valve D35L	--							S	S												S	S							
32		Pipe Connection D35L	51,-								●	●												●	●						
33		Shut-off Valve D42L	--										S													S					
34		Pipe Connection D42L	51,-											●													●				
35		Shut-off Valve D54L	--												S													S			
36		Pipe Connection D54L	51,-												●												●				
37		Shut-off Valve D76L	--													S	S											S	S		
38		Pipe Connection D76L	51,-												●	●											●	●			
39	Second Outlet Connection (with Lock Nut / Blind Flange)	including lower Fixing Rails	174,-							●																					
40			116,-								●																				
41		--	263,-									●																			
42			338,-											●					S	S	S	S	S	S	S	S	S	S			
43			428,-												●																
44	494,-														●																
45	Pipe Connection for second Outlet Connection	D35L	51,-							●	●													●	●						
46		D42L	51,-									●													●						
47		D54L	51,-											●												●					
48		D76L	51,-												●	●											●	●			
49	Shut-off Valve for second Outlet Connection	D22L	74,-															●	●	●											
50		D28L	184,-																	●	●	●									
51		D35L	184,-								●	●												●	●						
52		D42L	184,-										●													●					
53		D54L	225,-												●												●				
54		D76L	462,-													●	●											●	●		

Item	Horizontal Liquid Receivers	Series	Horizontal Receivers																with larger Connections					
		Type	F062H	F102H	F152H	F192T	F202H	F252H	F302H	F392T	F402H	F552T	F562N	F732N	F902N	F1052T	F1202N	F1602N	F2202N	F3102N	F302G	F562G	F1052G	F1602G
		Price EUR	241,-	359,-	400,-	496,-	474,-	546,-	561,-	781,-	632,-	805,-	940,-	1.042,-	1.202,-	1.353,-	1.636,-	1.918,-	2.625,-	2.949,-	708,-	1.180,-	1.617,-	2.369,-
		Series	Horizontal Receivers for R290 / R1270																					
		Type	F062HP	F102HP	F152HP	F192TP	F202HP	F252HP	F302HP	F392TP	F402HP	F552TP	F562NP	F732NP	F902NP	F1052TP	F1202NP	F1602NP	F2202NP	F3102NP				
		Price EUR	253,-	378,-	421,-	522,-	497,-	574,-	590,-	820,-	664,-	845,-	988,-	1.095,-	1.262,-	1.421,-	1.718,-	2.015,-	2.757,-	3.096,-				
Accessories		Additional Information																						
1	Inlet Connection	Pipe Connection D12L	--	S																				
2		Shut-off Valve D12L	74,-	●																				
3		Pipe Connection D16L	--		S		S																	
4		Pipe Connection D22L	--			S		S	S	S	S													
5		Shut-off Valve D22L	74,-		●	●	●	●	●	●	●													
6		Pipe Connection D28L	--									S	S											
7		Shut-off Valve D28L	184,-									●	●											
8		Pipe Connection D35L	--										S	S										
9		Shut-off Valve D35L	184,-										●	●										
10		Pipe Connection D42L	--											S	S						S			
11		Shut-off Valve D42L	184,-											●	●						●		S	
12		Pipe Connection D54L	--													S	S					S	S	
13		Shut-off Valve D54L	225,-														●	●				●	●	
14		Pipe Connection D76L	--															S	S					S
15		Shut-off Valve D76L	462,-																●	●				●
16	Outlet Connection	Shut-off Valve D10L	--	S																				
17		Shut-off Valve D12L	--		S																			
18		Shut-off Valve D16L	--			S	S																	
19		Shut-off Valve D22L	--					S	S	S	S													
20		Shut-off Valve D28L	--									S	S	S	S									
21		Shut-off Valve D35L	184,-									●	●	●	●	S	S							
22		Shut-off Valve D42L	--														S	S			S	S	S	
23		Shut-off Valve D54L	--															S	S					S

Item	Horizontal Liquid Receivers		Series	Horizontal Receivers																with larger Connections					
			Type	F062H	F102H	F152H	F192T	F202H	F252H	F302H	F392T	F402H	F552T	F562N	F732N	F902N	F1052T	F1202N	F1602N	F2202N	F3102N	F302G	F562G	F1052G	F1602G
			Price EUR	241,-	359,-	400,-	496,-	474,-	546,-	561,-	781,-	632,-	805,-	940,-	1.042,-	1.202,-	1.353,-	1.636,-	1.918,-	2.625,-	2.949,-	708,-	1.180,-	1.617,-	2.369,-
			Series	Horizontal Receivers for R290 / R1270																					
			Type	F062HP	F102HP	F152HP	F192TP	F202HP	F252HP	F302HP	F392TP	F402HP	F552TP	F562NP	F732NP	F902NP	F1052TP	F1202NP	F1602NP	F2202NP	F3102NP				
			Price EUR	253,-	378,-	421,-	522,-	497,-	574,-	590,-	820,-	664,-	845,-	988,-	1.095,-	1.262,-	1.421,-	1.718,-	2.015,-	2.757,-	3.096,-				
	Accessories	Additional Information																							
24	Upper Fixing Rails for Compressor Mounting (Kit)	for CE1	73,-	●	●																				
25		for CE2	73,-	●	●	●																			
26		for CE3	73,-			●		●	●	●															
27		for CE4S	73,-			●			●	●	●				●										
28		for BE5 .. BE6	73,-						●	●		●			●	●									
29		for Tandem BE5 .. BE6	73,-									●			●										
30		for Tandem CE2 .. CE3	73,-				●				●														
31		for Tandem CE4S	73,-								●			●											
32	Upper Angle Brackets	-	49,-	S	S	S	S	S	S	S	S	S	●	●	S										
33	Fixing Plate for Compressor Mounting (Kit)	for CE1 .. CE2	71,-	●	●																				
34		for CE1 .. BE6	82,-			●		●	●	●	●			●											
35		for Tandem CE1 .. BE6	164,-				●				●	●			●										
36	Lower Fixing Rails	for Receiver Mounting (Kit)	73,-	●	●	●	●	●	●	●	●	●	●	●	●										
37	Minimum Level Control	mechanical Float Switch	280,-									●	●	●	●	●	●	●	●		●	●	●	●	
38	Opto-electronic Liquid Level Monitoring OLC-D1-D Minimum	230 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
39		115 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
40		24 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
41	Opto-electronic Liquid Level Monitoring OLC-D1-D Maximum	230 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
42		115 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
43		24 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
44	Adapter for Pressure Relief Valve	1/2" - 14 NPTF - internal Thread	39,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
45		G 1/2 - internal Thread	39,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
46		1/2" - 14 NPTF - external Thread	39,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
47		G 1/2 - external Thread	39,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
48	Sight Glass	1x	--	S	S	S	S																		
49		2x	--					S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	



Item	Horizontal Liquid Receivers for NH ₃ and CO ₂		Series	NH ₃						CO ₂			
			Type	F202HA	F402HA	F562NA	F1052TA	F1602NA	F3102NA	F302K	F562K	F1052K	F1602K
			Price EUR	673,-	978,-	1.213,-	1.608,-	2.204,-	3.538,-	779,-	1.301,-	1.777,-	2.603,-
	Accessories	Additional Information											
1	Inlet Connection	Pipe Connection DN 20	--	S									
2		Pipe Connection DN 25	--		S								
3		Pipe Connection DN 40	--			S	S						
4		Pipe Connection DN 50	--					S					
5		Pipe Connection DN 80	--						S				
6		Pipe Connection D22L	--							S	S	S	
7		Shut-off Valve D22L	74,-							•	•	•	
8		Pipe Connection D28L	--										S
9		Shut-off Valve D28L	184,-										•
10	2x Inlet Connection for CO ₂ Receivers	2x Pipe Connection D22L	51,-							•	•	•	
11		2x Pipe Connection D28L	51,-										•
12		2x Shut-off Valve D22L	149,-							•	•	•	
13		2x Shut-off Valve D28L	368,-										•
14	Outlet Connection	Shut-off Valve DN 20	--	S									
15		Shut-off Valve DN 25	--		S								
16		Shut-off Valve DN 32	--			S	S						
17		Shut-off Valve DN 40	--					S					
18		Shut-off Valve DN 50	--						S				
19		Shut-off Valve D22L	--							S	S	S	
20		Shut-off Valve D28L	--										S
21	Lower Fixing Rails	for Receiver Mounting (Kit)	73,-	•	•	•	•						
22	Opto-electronic Liquid Level Monitoring OLC-D1-D Minimum	230 V AC, 50 / 60 Hz	280,-	•	•	•	•	•	•	•	•	•	•
23		115 V AC, 50 / 60 Hz	280,-	•	•	•	•	•	•	•	•	•	•
24		24 V AC, 50 / 60 Hz	280,-	•	•	•	•	•	•	•	•	•	•
25	Opto-electronic Liquid Level Monitoring OLC-D1-D Maximum	230 V AC, 50 / 60 Hz	280,-	•	•	•	•	•	•	•	•	•	•
26		115 V AC, 50 / 60 Hz	280,-	•	•	•	•	•	•	•	•	•	•
27		24 V AC, 50 / 60 Hz	280,-	•	•	•	•	•	•	•	•	•	•
28	Adapter for Pressure Relief Valve	1/2" - 14 NPTF - internal Thread	39,-	•	•	•	•	•	•	•	•	•	•
29		G 1/2 - internal Thread	39,-	•	•	•	•	•	•	•	•	•	•
30		1/2" - 14 NPTF - external Thread	39,-							•	•	•	•
31		G 1/2 - external Thread	39,-							•	•	•	•
32	Sight Glasses	2x	--	S	S	S	S	S	S	S	S	S	S

Item	Vertical Liquid Receivers "S"		Series	Vertical Receivers "S"																	"S"-Version CO ₂					
			Type	FS36	FS56	FS76	FS126	FS102	FS152	FS202	FS252	FS302	FS402	FS562	FS732	FS902	FS1122	FS1602	FS2202	FS3102	FS4002	FS4752	FS5502	FS302K	FS562K	FS902K
Price EUR			147,-	163,-	192,-	272,-	381,-	443,-	530,-	625,-	652,-	720,-	1.125,-	1.263,-	1.300,-	1.795,-	2.112,-	2.852,-	3.111,-	5.804,-	6.234,-	7.004,-	832,-	1.297,-	1.742,-	2.527,-
Series			Vertical Receivers "S" for R290 / R1270																							
Type			FS36P	FS56P	FS76P	FS126P	FS102P	FS152P	FS202P	FS252P	FS302P	FS402P	FS562P	FS732P	FS902P	FS1122P	FS1602P	FS2202P	FS3102P	FS4002P	FS4752P	FS5502P				
Price EUR			206,-	273,-	306,-	388,-	399,-	466,-	556,-	656,-	685,-	756,-	1.180,-	1.325,-	1.364,-	1.884,-	2.218,-	2.995,-	3.266,-	6.094,-	6.545,-	7.354,-				
Accessories		Additional Information																								
1	Inlet Connection	Pipe Connection D10L	--	S	S																					
2		Pipe Connection D12L	--			S	S																			
3		Pipe Connection D16L	--					S																		
4		Pipe Connection D22L	--						S	S	S													S	S	S
5		Shut-off Valve D22L	74,-					●	●															●	●	●
6		Pipe Connection D28L	--									S	S													S
7		Shut-off Valve D28L	184,-							●	●	●	●													●
8		Pipe Connection D35L	--											S	S											
9		Shut-off Valve D35L	184,-											●	●											
10		Pipe Connection D42L	--													S										
11		Shut-off Valve D42L	184,-													●										
12		Pipe Connection D54L	--														S	S								
13		Shut-off Valve D54L	225,-														●	●								
14		Pipe Connection D76L	--																S	S						
15		Shut-off Valve D76L	462,-															●	●							
16		Pipe Connection D108L	--																		S	S	S			
17		Shut-off Valve D108L	1.058,-																		●	●	●			
18	2x Inlet Connection for CO ₂ Receivers	2x Pipe Connection D22L	51,-																					●	●	●
19		2x Pipe Connection D28L	51,-																							●
20		2x Shut-off Valve D22L	149,-																					●	●	●
21		2x Shut-off Valve D28L	368,-																							●
22	Outlet Connection	Lock Nut	--	S	S	S	S																			
23		Shut-off Valve D10L	74,-	●	●																					
24		Shut-off Valve D12L	74,-			●	●	S																		
25		Shut-off Valve D16L	74,-			●	●		S																	
26		Shut-off Valve D22L	--							S	S	S	S											S	S	S
27		Shut-off Valve D28L	--											S	S											S
28		Shut-off Valve D35L	--													S										
29		Shut-off Valve D42L	--														S	S								
30		Shut-off Valve D54L	--																S	S						
31		Shut-off Valve D76L	--																		S	S	S			



Item	Vertical Liquid Receivers "S"		Series	Vertical Receivers "S"																"S"-Version CO ₂							
			Type	FS36	FS56	FS76	FS126	FS102	FS152	FS202	FS252	FS302	FS402	FS562	FS732	FS902	FS1122	FS1602	FS2202	FS3102	FS4002	FS4752	FS5502	FS302K	FS562K	FS902K	FS1602K
			Price EUR	147,-	163,-	192,-	272,-	381,-	443,-	530,-	625,-	652,-	720,-	1.125,-	1.263,-	1.300,-	1.795,-	2.112,-	2.852,-	3.111,-	5.804,-	6.234,-	7.004,-	832,-	1.297,-	1.742,-	2.527,-
			Series	Vertical Receivers "S" for R290 / R1270																							
			Type	FS36P	FS56P	FS76P	FS126P	FS102P	FS152P	FS202P	FS252P	FS302P	FS402P	FS562P	FS732P	FS902P	FS1122P	FS1602P	FS2202P	FS3102P	FS4002P	FS4752P	FS5502P				
			Price EUR	206,-	273,-	306,-	388,-	399,-	466,-	556,-	656,-	685,-	756,-	1.180,-	1.325,-	1.364,-	1.884,-	2.218,-	2.995,-	3.266,-	6.094,-	6.545,-	7.354,-				
	Accessories		Additional Information																								
32	Sight Glasses	3x	--				S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
33	Sight Glass, low Level	-	31,-	●																							
34	Connection for Pressure Relief Valve, Sight Glass low Level and Sight Glass high Level	Accessory Kit; Retrofitting not possible	78,-		●	●	●																				
35	Minimum Level Control	mechanical Float Switch	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
36	Maximum Level Control	mechanical Float Switch	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
37	Opto-electronic Liquid Level Monitoring OLC-D1-D Minimum	230 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
38		115 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
39		24 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
40	Opto-electronic Liquid Level Monitoring OLC-D1-D Maximum	230 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
41		115 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
42		24 V AC, 50 / 60 Hz	280,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
43	Adapter for Pressure Relief Valve (FS56 .. FS126: Sight Glass required)	1/2" - 14 NPTF - internal Thread	39,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
44		G 1/2 - internal Thread	39,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
45		1/2" - 14 NPTF - external Thread	39,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
46		G 1/2 - external Thread	39,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
47		3/8" NPTF - internal Thread	39,-							●	●	●	●	●	●	●	●	●	●	●	●	●	●				



A large rectangular area filled with a light gray dot grid pattern, intended for handwritten notes.

Item	Special Options		Price EUR	Product Series							
				Reciprocating Compressors		Condensing Units with Reciprocating Compressors	Screw Compressors			Scroll Compressors	
				Semi-Hermetic	Open Drive		OS..	HS..	CSH.. CSW..	ESH	Orbit 6 Orbit 8
	Description	Additional Information									Pressure Vessels
1	Special Painting	available RAL Colours on Request	390,-	•	•		•	•	•	•	•
2	Without Painting	wrapped in Foil	390,-				on Request				
3	Only Primer	no Finish Paint	390,-				on Request				
4	Special Documentation (on Request)	e.g.: Preparation for Special Approvals; Approval Inspection with Customer; etc	1.133,-	•	•		•	•	•	•	
5			755,-								•
6	Special Approvals with In-house Inspection at BITZER	Approval Costs charged by the Certification Organization are passed on to the Customer	on Request								
7	TR Certification	for Export to GUS (former GOST-R)	233,-	•	•	•	•	•	•	•	•
8	UL Approval	-	--	Availability: see UL Files SLIS2.SA7129, SLIS8.SA7129 (www.ul.com)							
9	Without Motor Protection Device	without SE-B1 without SE-B2 without SE-B3	-25,-	•		•				•	•
10		without SE-E1	-57,-					•	•		
11	Without Oil Injection Kit	HS/OS 53 .. 74	-916,-				•	•			

Item	Lubricants for Reciprocating and Scroll Compressors Technical Information: see KT-500 and KT-510		Series		CE1 .. CE8, B4	BS4 .. BS6	CH1 .. CH4	CME1, CME2	CKH3, CKH4, CKH3F	CEP1 .. CEP8	CEZF .. CE4F	CD3, CD4	BO3 .. BO6	BOS6	BOA3 .. BOA6	0 .. VIIW	ESH7	GSD6, GSD8	for Refrigerant
	Oil Type	Container Size (liter)	Price EUR	Part No.															
1	BSE32	1	44,-	91511002	✓	✓					✓		✓	✓		✓			HFC (R134a, R407C, R404A...)
2		5	201,-	91511004															
3		10	388,-	91511005															
4		205	6.343,-	91511001															
5	BSE55	1	46,-	91511102	✓	✓				✓	✓		✓	✓		✓			HFC (R134a, R407C, R404A...)
6		5	207,-	91511104															
7		10	392,-	91511105															
8		205	6.366,-	91511101															
9	B5.2	1	19,-	91510212	✓	✓							✓	✓		✓	✓		R22
10		5	94,-	91510111															
11		10	133,-	91510114															
12		205	2.156,-	91510211															
13	BSE60K	1	40,-	91512501			✓	✓											CO ₂
14		5	182,-	91512502															
15		10	350,-	91512503															
16		205	6.031,-	91512504															
17	BSE85K	1	100,-	91512802			✓	✓	✓										CO ₂
18		5	486,-	91512803															
19		10	948,-	91512801															
20		205	14.709,-	91512804															
21	BSG68K	20	1.896,-	91513403				✓	✓										CO ₂
22	KC68	1	16,-	91513502											✓				NH ₃
23		10	163,-	91513504															
24		209	2.157,-	91513501															
25	SHC226E	20	787,-	91512003					✓										NH ₃
26		209	7.109,-	91512001															
27	BSE35K	1	39,-	91513004													✓		HFC (R134a, R407C, R404A...)
28		5	180,-	91513002															
29		10	346,-	91513003															
30		205	5.927,-	91513001															
31	BVC32	1	65,-	91513301														✓	R410A
32		5	288,-	91513302															
33		18	988,-	91513304															



Item	Lubricants for Semi-Hermetic and Open Drive Screw Compressors		Series		CSH..	CSW..	CSVH..	HS..	OS..	OSA..	for Refrigerant
	Oil Type	Container Size (liter)	Price EUR	Part No.							
1	BSE170	1	67,-	91511502	✓	✓	✓	✓	✓		HFC (R134a, R407C, R404A....)
2		5	311,-	91511504							
3		10	484,-	91511505							
4		205	9.365,-	91511501							
5	BSE170L	1	67,-	91511806		✓					HFC (R134a, R407C, R404A....)
6		5	311,-	91511801							
7		10	484,-	91511802							
8		205	9.365,-	91511804							
9	B320SH	1	69,-	91512407	✓	✓					R22
10		5	280,-	91512409							
11		20	829,-	91512408							
12		208	8.432,-	91512406							
13	B150SH	1	72,-	91511705				✓	✓		R22
14		5	303,-	91511706							
15		20	856,-	91511707							
16	B100	10	187,-	91510904				✓	✓		R22
17		205	3.312,-	91510901							
18	KC68	1	16,-	91513502						✓	NH ₃
19		10	163,-	91513504							
20		209	2.157,-	91513501							
21	SHC226E	5	228,-	91512004						✓	NH ₃
22		20	787,-	91512003							
23		209	7.109,-	91512001							

Part No.	Description	Price	Accessory on page / item
30061201	Coupling housing	424,-	
30061202	Coupling housing	424,-	56/2
30061203	Coupling housing	424,-	56/3
30061204	Coupling housing	465,-	56/4
30061205	Coupling housing	561,-	56/5
30061206	Coupling housing	561,-	56/6
30061207	Coupling housing	848,-	56/7
30061208	Coupling housing	2.114,-	
30061209	Coupling housing	465,-	76/1
30061210	Coupling housing	465,-	76/2
30061211	Coupling housing	746,-	76/3 83/1
30061212	Coupling housing	746,-	76/4 83/2
30061213	Coupling housing	842,-	76/5 83/3
30061214	Coupling housing	842,-	76/6 83/4
30061215	Coupling housing	2.798,-	
30061216	Coupling housing	983,-	76/7 83/5
30061217	Coupling housing	2.020,-	
30061218	Coupling housing	1.920,-	
30061222	Coupling housing	561,-	
30061301	Coupling housing	4.529,-	
30237002	Start unloading	525,-	
30237003	Start unloading	525,-	
30237006	Start unload. w. temp. protect	525,-	9/22 11/19 13/19 15/18 27/17 28/16 30/14 37/22 39/24 43/44 45/26 47/49 51/21
30237007	Start unload. w. temp. protect	525,-	9/22 11/19 13/19 15/18 27/17 28/16 30/14 37/22 39/24 43/44 45/26 47/49 51/21
30237301	Start unloading	587,-	58/79
30237302	Start unloading	639,-	58/80
30237303	Start unloading	587,-	58/79
30237304	Start unloading	639,-	58/80
30323101	Pulley	126,-	57/35
30331211	Pulley	172,-	57/36
30360211	Pulley	256,-	57/37
31321001	Adapter, Kit Rotalok	76,-	88/19
31321001	Adapter Kit Rotalock GSD6	76,-	88/19
31321001	Adapter Kit Rotalock GSD8	86,-	88/20
32031811	Connection bridge	37,-	62/9 65/14 72/8 82/12
32035202	Set of ring bolts	93,-	53/4
32035210	Set of ring bolts	93,-	53/4
32036601	Fixing plate	71,-	
32036602	Fixing plate	82,-	
32403901	Rail Kit, Tandem, GSD8	353,-	
32403903	Fixing rail	318,-	
32403904	Kit fixing rails	434,-	
32403905	Kit fixing rails	254,-	
32404001	Kit fixing rails	482,-	
32493801	Heating device	190,-	63/23 66/28 73/40 82/23
32493802	Heating device	190,-	63/23 66/28 73/40 82/23
32493803	Cover with heating device	190,-	63/23 66/28 73/40 82/23
32493804	Cover with heating device	190,-	63/24 66/29 73/41 82/24
32493805	Cover with heating device	190,-	63/23 66/28 73/40 82/23
32493806	Cover with heating device	190,-	63/24 66/29 73/41 82/24



Part No.	Description	Price	Accessory on page / item
32493807	Cover with heating device	190,-	63/23 66/28 73/40 82/23
32493808	Cover with heating device	190,-	63/24 66/29 73/41 82/24
32605502	Frame	377,-	
32605701	Frame	378,-	
32691902	Adaptor	64,-	
32730101	Fixing rail	73,-	96/24
32730104	Fixing rail	73,-	96/24
32730105	Fixing rail	73,-	96/24
32730106	Fixing rail	73,-	96/24
32730109	Fixing rail	73,-	94/57
32730110	Fixing rail	73,-	
32730112	Fixing rail	73,-	96/24
32730120	Fixing rail	73,-	96/24
32730121	Fixing rail	73,-	96/25
32730122	Fixing rail	73,-	48/4 96/26
32730123	Fixing rail	73,-	96/30
32730124	Fixing rail	73,-	48/5 96/27
32730125	Fixing rail	73,-	96/31
34120102	Built-on motor 71, 0,25/0,29 kW	558,-	
34120103	Built-on motor 71, 0,37/0,43 kW	625,-	
34120104	Built-on motor 80, 0,55/0,63 kW	534,-	
34120105	Built-on motor 80, 0,75/0,86 kW	476,-	
34120106	Built-on motor 90S, 1,1/1,3 kW	688,-	
34120107	Built-on motor 90L, 1,5/1,75 kW	817,-	
34120108	Built-on motor 100L, 2,2/2,55 kW	1.000,-	
34120109	Built-on motor 100L 3/3,45kW	1.152,-	
34120110	Built-on motor 112M, 4/4,6 kW	1.413,-	
34120111	Built-on motor 132S, 5,5/6,3 kW	1.762,-	
34120112	Built-on motor 132S, 5,5/6,3 kW	1.945,-	
34120113	Built-on motor 132M, 7,5/8,6 kW	2.236,-	
34120114	Built-on motor 132M, 7,5/8,6 kW	2.419,-	
34120115	Built-on motor 160M, 11/12,6 kW	2.936,-	
34120116	Built-on motor 160M, 11/12,6 kW	3.199,-	
34120117	Built-on motor 160M, 11/12,6 kW	3.109,-	
34120120	Built-on motor 160L, 15/17,3 kW	4.075,-	
34120121	Built-on motor 160L, 15/17,3 kW	4.075,-	
34120122	Built-on motor 160M, 15/17,3 kW	3.976,-	
34120125	Built-on motor 180M, 18,5/21,3 kW	4.536,-	
34120126	Built-on motor 180M, 18,5/21,3 kW	4.936,-	
34120127	Built-on motor 160L, 18,5/21,3 kW	4.693,-	
34120130	Built-on motor 180L, 22/25,3 kW	5.274,-	
34120131	Built-on motor 180L, 22/25,3 kW	5.673,-	
34120132	Built-on motor 180M, 22/24,5 kW	5.621,-	
34120135	Built-on motor 200L, 30/34,5 kW	7.361,-	
34120136	Built-on motor 200L, 30/33,5 kW	7.293,-	
34120139	Built-on motor 225S, 37/42,5 kW	9.086,-	
34120140	Built-on motor 200L, 37/41,5 kW	9.027,-	
34120143	Built-on motor 225M, 45/52 kW	10.561,-	
34120144	Built-on motor 225M, 45/51 kW	11.072,-	
34120147	Built-on motor 250M, 55/63 kW	12.929,-	



Part No.	Description	Price	Accessory on page / item
34120148	Built-on motor 250M, 55/62 kW	13.281,-	
34120151	Built-on motor 280S, 75/84 kW	18.077,-	
34120153	Built-on motor 280M, 90/101 kW	21.173,-	
34120157	Built-on motor 315S, 110 kW	25.568,-	
34120158	Built-on motor 315M, 132 kW	30.273,-	
34120159	Built-on motor 315L, 160 kW	37.206,-	
34200601	Coupling	318,-	56/15
34200602	Coupling	318,-	56/15
34200603	Coupling	318,-	56/15
34200604	Coupling	318,-	56/16
34200701	Coupling	318,-	56/16
34200702	Coupling	318,-	56/9
34200703	Coupling	318,-	56/10
34200704	Coupling	318,-	56/11
34200801	Coupling	920,-	
34200802	Coupling	920,-	
34200803	Coupling	920,-	
34200804	Coupling	920,-	
34200901	Coupling	920,-	
34200902	Coupling	920,-	
34200903	Coupling	920,-	
34200904	Coupling	920,-	
34201201	Coupling	630,-	56/27
34201202	Coupling	630,-	56/27
34201203	Coupling	630,-	56/28
34201301	Coupling	635,-	76/9
34201302	Coupling	635,-	76/10
34201303	Coupling	635,-	76/11
34201304	Coupling	635,-	76/12
34201305	Coupling	635,-	76/12
34201306	Coupling	635,-	76/12
34201401	Coupling	635,-	76/15
34201402	Coupling	635,-	76/14
34201403	Coupling	635,-	76/16
34201404	Coupling	702,-	
34201405	Coupling	702,-	
34201406	Coupling	702,-	
34201601	Coupling	630,-	56/21
34201602	Coupling	630,-	56/21
34201603	Coupling	630,-	56/22
34201604	Coupling	630,-	56/23
34201701	Coupling	1.332,-	
34201702	Coupling	1.332,-	
34201703	Coupling	1.332,-	
34202101	Coupling	1.002,-	56/33
34202102	Coupling	1.002,-	56/34
34202103	Coupling	1.002,-	56/33
34202201	Coupling	1.016,-	76/18
34202202	Coupling	1.016,-	76/19
34202203	Coupling	1.016,-	76/20



Part No.	Description	Price	Accessory on page / item
34202204	Coupling	1.016,-	76/18
34202205	Coupling	1.119,-	
34202206	Coupling	1.119,-	
34202207	Coupling	1.119,-	
34202208	Coupling	1.119,-	
34202301	Coupling	1.501,-	
34202401	Coupling	1.016,-	76/23
34202402	Coupling	1.016,-	76/24
34202403	Coupling	1.016,-	76/25
34202404	Coupling	1.016,-	76/22
34203101	Coupling	318,-	56/13
34203102	Coupling	318,-	56/13
34203103	Coupling	318,-	56/13
34203301	Coupling	318,-	
34203601	Coupling	318,-	56/19
34203602	Coupling	318,-	56/19
34203603	Coupling	318,-	56/19
34203801	Coupling	318,-	56/19
34203802	Coupling	318,-	56/19
34204001	Coupling	630,-	56/25
34204002	Coupling	630,-	56/25
34204003	Coupling	630,-	56/25
34204101	Coupling	630,-	56/30
34204102	Coupling	630,-	56/31
34204103	Coupling	630,-	56/31
34204104	Coupling	630,-	56/31
34302101	Additional fan	281,-	
34302102	Additional fan	427,-	
34302103	Additional fan	427,-	10/16 14/16 28/13 58/64
34302104	Additional fan	427,-	
34302105	Additional fan	427,-	
34302114	Additional fan	450,-	
34302115	Additional fan	450,-	
34302116	Additional fan	450,-	
34302117	Additional fan	450,-	
34302122	Additional fan	427,-	10/16 14/16 28/13 58/64
34302123	Additional fan	427,-	10/16 14/16 28/13 58/64
34302126	Additional fan	332,-	8/20 12/17 26/15 30/12 33/15 36/20 38/22
34302127	Additional fan	332,-	8/20 12/17 26/15 30/12 33/15 36/20 38/22
34302129	Additional fan	332,-	8/20 12/17 26/15 30/12 33/15 36/20 38/22
34320601	Crankcase heater	2.926,-	
34320602	Crankcase heater	2.926,-	
34320801	Crankcase heater	69,-	57/50
34320802	Crankcase heater	69,-	57/49
34320803	Crankcase heater	69,-	57/48
34320804	Crankcase heater	76,-	57/54
34320805	Crankcase heater	74,-	18/9 38/10 45/23 57/53
34320806	Crankcase heater	74,-	18/8 38/9 45/21 57/52
34320810	Crankcase heater	74,-	18/10 38/11 57/55
34320811	Oil heater	69,-	57/51

Part No.	Description	Price	Accessory on page / item
34320812	Heater	74,-	18/9 38/10 45/23 57/53
34321302	Crankcase heater	78,-	10/9 14/9 18/13 28/6 57/58
34321303	Oil heater	78,-	10/8 14/8 18/12 28/5 45/24 47/44 57/57
34321304	Oil heater	78,-	10/7 14/7 18/11 28/4 45/22 47/43 57/56
34321305	Crankcase heater	78,-	10/10 14/10 18/14 28/7 57/59
34321901	Crankcase heater	69,-	8/9 12/8 22/9 23/6 26/4 30/2 33/5 36/9 43/36 47/39 51/16
34321902	Crankcase heater	69,-	8/10 12/9 22/10 23/7 26/5 30/3 33/6 36/10 43/37 47/40 51/17
34321903	Crankcase heater	69,-	8/13 12/10 22/13 23/9 26/8 30/6 33/9 36/13 38/8 43/39 47/42 51/19
34321904	Crankcase heater	69,-	8/12 12/11 22/12 23/8 26/7 30/5 33/8 36/12 38/7 43/38 47/41 51/18
34321905	Oil heater	69,-	8/11 12/7 22/11 26/6 30/4 33/7 36/11
34322302	Heater band	50,-	88/4
34322401	Oil heater	57,-	8/8 22/8 26/3 36/8 43/35 47/38 51/15
34322402	Crankcase heater	57,-	8/7 22/7 26/2 36/7 43/34 47/37 51/14
34322801	Heating element	50,-	88/4
34322802	Heating element	50,-	88/3
34322901	Heating element	114,-	
34322902	Heating element	114,-	
34325601	Heating element	65,-	88/10
34325602	Heating element	65,-	88/9
34325603	Heating element	65,-	88/11
34325604	Heating element	65,-	88/12
34325605	Heating device	57,-	88/6
34325606	Heating device	57,-	88/5
34325607	Heating element	57,-	88/7
34325608	Heating device	57,-	88/8
34325801	Heater band	151,-	
34325802	Heater band	182,-	
34335001	Coil	2.399,-	
34335001	Coil 230V 50/60Hz, EEX DE II T4	2.364,-	83/16
34335002	Coil 24V, AC/DC, EEX DE II T4	2.364,-	83/18
34335003	Coil 110V 50/60Hz, EEX DE II T4	2.364,-	83/17
34343101	Connection bridge	26,-	62/8 65/13 72/7 82/11
34343103	Connection bridge	26,-	62/8 65/13 72/7 82/11
34343104	Connection bridge	37,-	62/9 65/14 72/8 82/12
34343107	Connection bridge	37,-	62/9 65/14 72/8 82/12
34431401	Adaptor	436,-	33/25 53/7 68/32
34702303	PTC-Sensor	140,-	8/21 10/17 12/18 14/17 18/24 26/16 28/14 30/13 33/16 36/21 38/23 43/42 45/25 47/47 51/20
34702304	PTC-Sensor	140,-	
34702306	PTC-Sensor	140,-	88/13
34702501	PTC-Sensor	256,-	
34703301	Room temperature sensor	46,-	53/5
34704202	PTC-Sensor	140,-	88/13
34731202	Differential oil pressure cut-out	796,-	
34731602	Prisma-Opto-electronical unit	70,-	
34731903	Differential oil pressure cut-out	218,-	
34731911	Differential oil pressure cut-out	218,-	10/6 14/6 18/6 33/4 38/6 57/43
34732025	Differential oil pressure cut-out	796,-	57/44
34732026	Differential oil pressure cut-out	796,-	57/44
34732027	Differential oil pressure cut-out	796,-	57/44
34732033	Differential oil pressure cut-out	241,-	10/5 14/5 18/4 38/5 57/42



Part No.	Description	Price	Accessory on page / item
34732034	Differential oil pressure cut-out	523,-	
34732233	Differential oil pressure cut-out	341,-	
34732234	Differential oil pressure cut-out	341,-	
34732235	Differential oil pressure cut-out	341,-	
34732236	Differential oil pressure cut-out	341,-	
34732244	Differential oil pressure cut-out	341,-	
34732253	Pressure switch	261,-	42/15 44/9 46/16 50/6
34732310	Differential oil pressure cut-out	707,-	
34732311	Differential oil pressure cut-out	707,-	
34732317	Differential oil pressure cut-out	707,-	
34732340	Differential oil pressure cut-out	707,-	42/17 44/10 46/18 50/7
34733403	Oil level monitoring	218,-	8/5 12/5 22/5 36/5
34733404	Oil level monitoring	218,-	8/6 12/6 22/6 36/6
34733407	Opto-electronical unit	148,-	
34740302	Liquid level limiter	280,-	96/37 99/35
34740304	Liquid level limiter	280,-	
34740501	Electronic level control	2.073,-	
34740502	Electronic level control	2.073,-	
34740503	Electronic level control	2.073,-	
34740504	Electronic level control	2.109,-	
34740505	Electronic level control	2.191,-	
34740506	Electronic level control	2.191,-	
34740507	Electronic level control	2.265,-	
34740508	Electronic level control	2.294,-	
34740601	Monitoring device	1.230,-	
34770201	Control module CIC, kit, without LS	890,-	
34770202	Control module CIC, kit, without LS	866,-	
34770203	Control module CIC, kit, without LS	955,-	
34770204	Control module CIC, kit, without LS	955,-	
34770207	Control module CIC, kit, without LS	866,-	
34770208	Control module CIC, kit, without LS	890,-	
34770209	Control module CIC, kit, without LS	1.106,-	
34770210	Control module CIC, kit, without LS	1.106,-	
34770211	Control module CIC, kit, without LS	890,-	
34770218	Control module CIC, kit, without LS	866,-	9/43 13/40 39/47
34770219	Control module CIC, kit, without LS	955,-	11/42 15/40
34770220	Control module CIC, kit, without LS	955,-	11/42 15/40
34770221	Control module CIC, kit, without LS	1.106,-	11/43 15/41
34770222	Control module CIC, kit, without LS	1.106,-	11/43 15/41
34770301	Control module CIC, kit, with LS	1.228,-	19/30 44/13
34770302	Control module CIC, kit, with LS	1.228,-	19/30 44/13
34770303	Control module CIC, kit, with LS	1.512,-	19/31 44/14
34770304	Control module CIC, kit, with LS	1.512,-	19/31 44/14
34793152	Drehzahlregler 8-25 bar	263,-	42/13 44/7 46/14
34793153	Drehzahlregler 5-15 bar	263,-	42/14 44/8 /15
34793514	Frequency inverter	2.566,-	
34793515	Frequency inverter	2.566,-	
34793551	Frequency inverter	4.227,-	
34793552	Frequency inverter	5.423,-	
34793554	Frequency inverter	4.227,-	

Part No.	Description	Price	Accessory on page / item
34794901	Opto-electronical unit	210,-	
34794902	Opto-electronical unit	210,-	
34794904	Opto-electronical unit	210,-	
34795001	Opto-electronical unit OLC-D1, 230V	280,-	85/24
34795002	Opto-electronical unit OLC-D1, 115V	280,-	85/24
34795004	Opto-electronical unit OLC-D1, 24V	280,-	85/24
34795501	EMC/RFI-Filter FN 3258-180-40	1.895,-	68/8
34795502	EMC/RFI-Filter FN 3359-250-28	2.012,-	68/9
34795503	ECM/RFI-Filter FN 3359-320-99	2.228,-	68/10
34795504	ECM/RFI-Filter FN 3359-400	3.712,-	68/11
34795505	ECM/RFI-filter FN 3359-600-99	3.540,-	68/7
34795601	Power choke	1.109,-	68/1
34795602	Power choke	1.404,-	68/2
34795603	Power choke	1.525,-	68/3
34795604	Power choke	1.834,-	68/4
34795605	Power choke	2.794,-	68/5
34795606	Power choke	3.027,-	68/6
34795607	Power choke	3.540,-	68/7
34796201	Opto-elect. unit CS (OLC-D1-S), 230V	280,-	63/25 66/30
34796202	Opto-elect. unit CS (OLC-D1-S), 115V	280,-	63/26 66/31
34796203	Opto-elect. unit CS (OLC-D1-S), 24V	280,-	63/27 66/32
34909501	Capacity control retrofit kit	684,-	
34909502	Capacity control retrofit kit	684,-	
35300205	Subcooler	635,-	19/33
35300206	Subcooler	744,-	19/34 59/108
35310003	Oil cooler	3.154,-	
35310004	Oil cooler (air cooled) OL200 50/60Hz	3.154,-	
35310101	Oil cooler	4.162,-	
35310103	Oil cooler	4.162,-	
35310104	Oil cooler (air cooled) OL300 50/60Hz	4.162,-	
35310401	Oil cooler	7.465,-	
35310403	Oil cooler	7.465,-	
35310404	Oil cooler (air cooled) OL600 50/60Hz	7.465,-	
35400401	Muffler	139,-	
35400402	Muffler	158,-	
35400403	Muffler	181,-	
35400405	Muffler	184,-	63/45
35400406	Muffler	261,-	63/46 66/44
35400701	Muffler	477,-	63/47 66/45 68/29
35400702	Muffler	477,-	63/48 66/46 68/30
35501101	Oil separator	413,-	
35501102	Oil separator	484,-	
35501103	Oil separator	530,-	
35501104	Oil separator	538,-	
35501105	Oil separator	611,-	
35501106	Oil separator	1.275,-	
35810101	Kit Compr. Unit	988,-	
35810201	Kit Compr. Unit	837,-	
35810301	Kit Compr. Unit	1.294,-	



Part No.	Description	Price	Accessory on page / item
35810401	Kit Compr. Unit	1.065,-	
35810501	Kit Compr. Unit	1.028,-	
35810601	Kit Compr. Unit	875,-	
35811301	Kit Compr. Unit; Tandem-braze-equal-ICV	1.440,-	
35811401	Kit Compr. Unit; Tandem-Rota.-equal-ICV	1.567,-	
35811501	Kit Compr. Unit; Tandem-braze-unequal-ICV	1.440,-	
35811601	Kit Compr. Unit; Tandem-Rota.-unequal-ICV	1.567,-	
35811701	Kit Compr. Unit; Trio-braze-equal-ICV	2.364,-	
35811801	Kit Compr. Unit; Trio-Rota.-equal-ICV	2.538,-	
35840101	Weather protective housing	480,-	
35840102	Weather protective housing	647,-	42/3 46/3
35840103	Weather protective housing	690,-	
35840104	Weather protective housing	690,-	
35840105	Weather protective housing	680,-	
35840106	Weather protective housing	690,-	
35840113	Weather protective housing	647,-	42/3 46/3
35840114	Weather protective housing	647,-	42/3 46/3
35840115	Weather protective housing	647,-	42/3 46/3
35840116	Weather protective housing	1.172,-	42/4 46/4
35840117	Weather protective housing	1.172,-	42/4 46/4
35840118	Weather protective housing	1.172,-	42/4 46/4
35840119	Weather protective housing	1.172,-	42/4 46/4
35840120	Weather protective housing	1.172,-	42/4 46/4
35840121	Weather protective housing	647,-	42/3 46/3
35840405	Weather protective housing	1.697,-	42/5 44/2 46/5
35840505	Weather protective housing	1.697,-	42/5 44/2 46/5
35840601	Weather protective housing	2.086,-	42/6 44/3 46/6
35840605	Weather protective housing	2.086,-	42/6 44/3 46/6
35840705	Weather protective housing	2.086,-	42/6 44/3 46/6
36012601	Oil Return System	57,-	66/43
36012801	Oil Return System	241,-	78/62
36031802	Discharge gas line with fixing device	57,-	48/1
36031803	Discharge gas line with fixing device	57,-	48/1
36031804	Discharge gas line with fixing device	57,-	48/1
36031805	Discharge gas line with fixing device	57,-	48/1
36031806	Discharge gas line with fixing device	57,-	48/1
36031807	Discharge gas line with fixing device	1.922,-	
36031808	Discharge gas line with fixing device	57,-	48/1
36031809	Discharge gas line with fixing device	57,-	48/1
36032802	Discharge gas line with fixing device	57,-	48/1
36032803	Discharge gas line with fixing device	57,-	48/1
36032804	Discharge gas line with fixing device	57,-	48/1
36032805	Discharge gas line with fixing device	57,-	48/1
36032806	Discharge gas line with fixing device	124,-	48/2
36032807	Discharge gas line with fixing device	124,-	48/2
36034801	Discharge gas line with fixing device	57,-	48/1
36034803	Discharge gas line with fixing device	124,-	48/2
36034804	Discharge gas line with fixing device	124,-	48/2
36034805	Discharge gas line with fixing device	293,-	48/3
36034807	Discharge gas line with fixing device	1.923,-	

Part No.	Description	Price	Accessory on page / item
36034808	Discharge gas line with fixing device	124,-	48/2
36035801	Discharge gas line with fixing device	124,-	48/2
36035802	Discharge gas line with fixing device	124,-	48/2
36035803	Discharge gas line with fixing device	124,-	48/2
36035804	Discharge gas line with fixing device	124,-	48/2
36035805	Discharge gas line with fixing device	293,-	48/3
36035806	Discharge gas line with fixing device	293,-	48/3
36035830	Discharge gas line with fixing device	124,-	48/2
36035831	Discharge gas line with fixing device	124,-	48/2
36035832	Discharge gas line with fixing device	124,-	48/2
36035835	Pip.dis.gas line w.holde	124,-	48/2
36036801	Discharge gas line	124,-	48/2
36036806	Pip.dis.gas line w.holde	124,-	48/2
36037901	Discharge gas line with fixing device	1.924,-	
36037902	Discharge gas line with fixing device	1.925,-	
36049007	Tandem piping kit	1.165,-	
36049008	Kit piping, Header, Tandem BAHT 6	537,-	
36049009	Kit piping, Header, Trio BAHT 6	661,-	
36049011	Kit piping	1.230,-	
36049012	Kit piping	650,-	
36049013	Kit piping	902,-	
36049014	piping kit	1.282,-	
36049016	Kit piping	869,-	
36049018	Kit piping	1.600,-	
36049106	Kit piping	1.982,-	
36060201	Oil injection, kit	2.187,-	
36060202	Oil injection, kit	2.187,-	
36061301	Oil injection, kit	909,-	
36061302	Oil injection, kit	1.124,-	
36061309	Oil injection, kit	772,-	
36072301	Liquid injection, kit	480,-	
36072302	Liquid injection, kit	480,-	
36072303	Liquid injection, kit	480,-	
36072304	Liquid injection, kit	596,-	
36072305	Liquid injection, kit	596,-	
36072306	Liquid injection, kit	596,-	
36072307	Liquid injection, kit	596,-	
36073102	Liquid subcooler, mounted	1.228,-	19/30 44/13
36073103	Liquid subcooler, mounted	1.228,-	19/30 44/13
36073104	Liquid subcooler, mounted	1.228,-	19/30 44/13
36073105	Liquid subcooler, mounted	1.228,-	19/30 44/13
36073106	Liquid subcooler, mounted	1.512,-	19/31 44/14
36073109	Liquid subcooler, mounted	1.512,-	19/31 44/14
36073131	Liquid subcooler, mounted	1.512,-	19/31 44/14
36073132	Liquid subcooler, mounted	1.512,-	19/31 44/14
36073132	Liquid subcooler, mounted	1.512,-	19/31 44/14
36073134	Liquid subcooler, mounted	1.228,-	19/30 44/13
36073134	Liquid subcooler, mounted	1.228,-	19/30 44/13
36123801	Check valve, kit	1.926,-	
36130708	Shut-off valve	37,-	



Part No.	Description	Price	Accessory on page / item
36131405	Shut-off valve	301,-	
36131526	Shut-off valve	64,-	23/16 33/20
36131535	Shut-off valve	64,-	23/17
36131543	Shut-off valve	64,-	23/17
36132207	Shut-off valve	45,-	
36132916	Eco port	225,-	63/35 66/40
36133001	Eco port	225,-	73/33 78/59 83/25
36133002	Eco port	225,-	73/33 78/59 83/25
36133003	Eco port	231,-	63/36 66/41 68/26
36133004	Eco port	231,-	
36133005	Eco port	231,-	63/36 66/41 68/26
36133007	Eco port	265,-	63/37 66/42
36133009	Eco port	231,-	78/60
36133012	Eco port	325,-	73/34
36133013	Eco port	284,-	79/82
36133015	Eco port	231,-	63/36 66/41 68/26
36133016	Eco port	265,-	63/37 66/42
36133101	Eco port	74,-	
36133102	Eco port	74,-	
36133103	Eco port	428,-	79/81
36133104	Eco port	428,-	79/81
36133201	Liquid injection	41,-	73/35
36133202	Liquid injection	41,-	
36133203	Liquid injection	46,-	
36133204	Liquid injection	186,-	
36133205	Liquid injection	172,-	
36133206	Liquid injection	172,-	
36133207	Liquid injection	215,-	
36133208	Liquid injection	325,-	73/34
36133209	Liquid injection	241,-	78/62
36133210	Liquid injection	80,-	63/38
36133910	Shut-off valve	144,-	64/58 67/35
36133918	Shut-off valve	345,-	64/60 67/36
36133926	Shut-off valve	864,-	64/63 67/38 68/16 73/50 78/71
36133928	Shut-off valve	1.511,-	64/65 67/40 68/18
36133931	Shut-off valve	864,-	
36133932	Shut-off valve	864,-	
36133933	Shut-off valve	345,-	
36133934	Shut-off valve	345,-	
36133942	Shut-off valve	345,-	64/60 67/36
36133943	Shut-off valve	345,-	
36133944	Shut-off valve	345,-	
36136111	Shut-off valve	199,-	85/10
36136112	Shut-off valve	345,-	85/11
36136113	Shut-off valve	428,-	85/12
36136714	Shut-off valve	154,-	23/20 33/22
36136715	Shut-off valve	350,-	23/19 33/21
36136716	Shut-off valve	154,-	23/21 33/23
36136717	Shut-off valve	154,-	23/22
36139304	Shut-off valve	246,-	88/28

Part No.	Description	Price	Accessory on page / item
36139305	Shut-off valve	246,-	88/29
36139307	Shut-off valve	246,-	88/30
36139501	Shut-off valve	135,-	88/26
36139502	Shut-off valve	135,-	88/27
36182801	Sight glass	70,-	
36182802	Sight glass	70,-	63/31 66/36
36190301	Oil service valve	74,-	9/42 11/39 13/39 15/38 18/26 27/37 29/36 31/34 33/17 39/44 43/50 45/30 47/55 51/25 58/72
36190302	Oil service valve	37,-	58/71
36191401	Oil service valve	74,-	
36220302	Suction line filter	1.203,-	
36220901	Filter OAS	820,-	85/19
36220902	Filter OAS	1.177,-	85/20
36220903	Filter OAS	1.773,-	85/21
36220904	Filter OAS	367,-	85/17
36220905	Filter OAS	619,-	85/18
36220906	Filter OAS	8.476,-	85/22
36220907	Filter OAS	12.681,-	85/23
36600501	Adaptor for pressure relief valve	39,-	96/44 97/28 99/43
36600502	Adaptor for pressure relief valve	39,-	96/47 97/31 99/46
36600503	Adaptor for pressure relief valve	39,-	96/46 97/30 99/45
36600504	Adaptor for pressure relief valve	39,-	96/45 97/29 99/44
36600505	Adaptor for pressure relief valve	39,-	99/47
36602401	Rotalock Adapters with Solder Bushing	118,-	88/23
36602402	Rotalock Adapters with Solder Bushing	118,-	88/24
36603001	Rotalock Adapters with Solder Bushing	46,-	88/21
36603002	Rotalock Adapters with Solder Bushing	46,-	88/22
36603004	Rotalock Adapters with Solder Bushing	46,-	
36603101	Rotalock Adapters with Solder Bushing	118,-	88/25
36603301	Pipe connection Rotalock	118,-	88/25
36720201	Weld neck flange NW65 - Steel	77,-	
36720202	Weld neck flange NW80 - Steel	90,-	
36720203	Weld neck flange NW100 - Steel	158,-	
36720204	Threaded flange NW65 - red bronze	777,-	
36720205	Threaded flange NW80 - red bronze	1.197,-	
36720206	Threaded flange NW100 - red bronze	1.433,-	
36791205	Kit oilcooler	1.183,-	63/39
36791206	Kit oilcooler	1.264,-	63/40
36791209	Kit oilcooler	1.183,-	63/41
36791210	Kit oilcooler	1.264,-	63/42
36900002	Oil & Gas equalizing	64,-	
36900003	Oil & Gas equalizing	64,-	11/40 15/39 29/37 39/45 58/74
36900101	Oil & Gas equalizing	130,-	
36900201	Screwed nipple	12,-	
37001201	Vibration damper set	69,-	
37001202	Vibration damper set	69,-	
37001203	Vibration damper set	69,-	63/20 66/25
37001206	Vibration damper set	69,-	63/20 66/25
37001207	Vibration damper set	157,-	73/39 82/22
37001503	Vibration damper set	25,-	89/32
37001701	Vibration damper set	207,-	63/22 66/27



Part No.	Description	Price	Accessory on page / item
37001801	Vibration damper set	207,-	63/22 66/27
37002101	Vibration damper set	25,-	89/32
37002103	Vibration damper set	39,-	89/34
37002104	Vibration damper set	51,-	89/35
37503451	Set of adjustable mechanical feats	63,-	53/3
37790310	Sound insulation	597,-	33/18 53/2
37790410	Sound insulation	615,-	33/19
37790501	Sound isolation cover	590,-	88/31
44200600	Coupling	318,-	56/14
44200700	Coupling	318,-	56/8
44201200	Coupling	630,-	56/26
44201300	Coupling	635,-	76/8
44201400	Coupling	635,-	76/13
44201600	Coupling	630,-	56/20
44202100	Coupling	1.002,-	56/32
44202200	Coupling	1.016,-	76/17
44202400	Coupling	1.016,-	76/21
91510111	Refrigeration compressor oil	94,-	102/10
91510114	Refrigeration compressor oil	133,-	102/11
91510211	Refrigeration compressor oil	2.156,-	102/12
91510212	Refrigeration compressor oil	19,-	102/9
91510215	Refrigeration compressor oil	528,-	
91510901	Refrigeration compressor oil	3.428,-	103/17
91510904	Refrigeration compressor oil	1.929,-	
91511001	Refrigeration compressor oil	6.343,-	102/4
91511002	Refrigeration compressor oil	44,-	102/1
91511004	Refrigeration compressor oil	201,-	102/2
91511005	Refrigeration compressor oil	388,-	102/3
91511101	Refrigeration compressor oil	6.366,-	102/8
91511102	Refrigeration compressor oil	46,-	102/5
91511104	Refrigeration compressor oil	207,-	102/6
91511105	Refrigeration compressor oil	392,-	102/7
91511501	Refrigeration compressor oil	9.365,-	103/4
91511502	Refrigeration compressor oil	67,-	103/1
91511504	Refrigeration compressor oil	311,-	103/2
91511505	Refrigeration compressor oil	484,-	103/3
91511705	Refrigeration compressor oil	72,-	103/13
91511706	Refrigeration compressor oil	303,-	103/14
91511707	Refrigeration compressor oil	856,-	103/15
91511801	Refrigeration compressor oil	311,-	103/6
91511802	Refrigeration compressor oil	484,-	103/7
91511804	Refrigeration compressor oil	9.365,-	103/8
91511806	Refrigeration compressor oil	67,-	103/5
91512001	Refrigeration compressor oil	7.109,-	102/26 103/23
91512003	Refrigeration compressor oil	787,-	102/25 103/22
91512004	Refrigeration compressor oil	231,-	103/21
91512103	Refrigeration compressor oil	396,-	
91512406	Refrigeration compressor oil	8.432,-	103/12
91512407	Refrigeration compressor oil	69,-	103/9
91512408	Refrigeration compressor oil	829,-	103/11

[illegible]

STANDARD TERMS OF SALES AND DELIVERY

Version 09/2011

1 Scope of Application

Any sales, deliveries and other services of BITZER SE, BITZER Kühlmaschinenbau GmbH and BITZER Kühlmaschinenbau Schkeuditz GmbH (hereinafter referred to as "BITZER") shall be based exclusively on the following Standard Terms of Sales and Delivery (hereinafter "Terms of Delivery"), which the Ordering Party recognizes by placing the order or by accepting the delivery. These Terms are an integral part of all contracts which BITZER concludes with the Ordering Parties with respect to the deliveries or services offered by BITZER. They shall apply also to any future business transactions with the Ordering Party even if they are not agreed on again separately. The application of any deviating or additional terms and conditions of the Ordering Party or any Third Party shall be excluded even if BITZER does not explicitly reject them. Even if BITZER refers to a letter containing the terms and conditions of the Ordering Party or a Third Party or any reference thereto, this shall not be construed as an acknowledgment of the applicability of these terms and conditions.

2 Conclusion of Contract

2.1

The offers submitted by BITZER are not binding and subject to confirmation. A contract shall be concluded only when BITZER confirms the offer in writing and shall be based exclusively on the contents of the order confirmation and these Terms of Delivery. Any oral agreements or commitments must also be confirmed in writing in order to be effective.

2.2

The legal relationship between BITZER and the Ordering Party shall be governed exclusively by the contract entered into in writing, including these Terms of Delivery. This contract reflects the total of all agreements between the Parties with respect to the subject matter of the contract. Any oral commitments made by BITZER before the conclusion of the contract shall not be legally binding and any oral agreements between the Parties shall be substituted by the written contract unless it is explicitly confirmed that they shall continue to be effective and legally binding. Any additions or modifications to the agreements entered into, including these Terms of Delivery, must be made in writing in order to be effective. Except for managing directors and persons having full power of attorney, the employees of BITZER shall not be authorized to enter into any deviating oral agreements. The requirement of written form shall be

fulfilled by sending a fax or an e-mail; in case of a transmission by e-mail, however, the statement contained therein shall be only valid if the sender adds his/her name and signs the electronic document with a qualified signature according to the Digital Signature Act. In case of a contract, the Parties must sign an identical document with a qualified electronic signature.

2.3

Any details provided by BITZER regarding the goods or services offered (e. g. weight, dimensions, utility values, capacity, tolerances and technical data) as well as the corresponding presentation (e. g. drawings and illustrations) shall have only approximate validity unless an exact correspondence of data and values is required for the usability of the products for the contractually agreed purpose. They do not represent any warranted qualities but are only descriptions or characterizations of the product or service. Deviations that are usual in the trade or that are due to legal provisions or represent technical improvements as well as the replacement of components by equivalent parts shall be admissible as far as the use for the contractually agreed purpose is not impaired thereby.

2.4

BITZER reserves all rights to the sales documentation (in particular illustrations, drawings, weight and dimension figures). They must not be made available to any Third Party and are to be returned to BITZER immediately on request. Only after a prior written consent from BITZER has been obtained shall it be admissible to pass such documents on to a Third Party.

2.5

BITZER's fulfillment of the contract shall be conditional on the fact that there are no national or international provisions of Foreign Trade Law or no embargos (and/or any other sanctions) opposing such fulfillment.

2.6

In connection with deliveries from BITZER, the Ordering Party agrees to refrain from the following business transactions in any case:

- (a) Business transactions with persons, organizations or institutions which are included in a sanction list pursuant to EU regulations or US export rules.
- (b) Business transactions with embargo states which are prohibited.

(c) Business transactions for which the required approvals are missing.

(d) Business transactions which could be made in connection with ABC weapons for a military end-use.

2.7

Any serious contravention and several or repeated contraventions against the Terms of Delivery shall be a reason for an immediate termination or another form of cancellation of the contractual relationship.

3 Delivery Dates and Deadlines

3.1

Delivery dates and deadlines shall only be binding if they have been confirmed in writing by BITZER and if the Ordering Party has provided to BITZER in due time all and any information and documentation required for an execution of the delivery and if any agreed down-payments have been received. The agreed deadlines shall start with the date of the order confirmation. In case of any additional orders or an extension of the order, the deadlines shall be extended accordingly. If shipment has been agreed, the delivery deadlines shall refer to the date when the goods are handed over to the forwarding company, carrier or any other party charged with the transportation. BITZER, notwithstanding its rights from a default of the Ordering Party, may request an extension or postponement of the deadlines set for the delivery of products and services by the period of time during which the Ordering Party fails to comply with its contractual obligations vis-à-vis BITZER.

3.2

Any unforeseen and unavoidable events as well as any events which are beyond BITZER's scope of influence and for which BITZER cannot be made responsible, such as force majeure, war, natural disasters, directives issued by public authorities, operational disorders of any kind, difficulties with the procurement of material and energy, delays in transportation, lack of labor, energy or raw materials, incorrect or delayed deliveries from suppliers, labor disputes and/or legal lockouts shall release BITZER from its obligation to provide punctual delivery of goods or services for the duration of the event. Agreed deadlines shall be extended for as long as the event lasts; the Purchaser shall be informed appropriately about the occurrence of the event. If the end of the disturbance is

not foreseeable or if the event lasts for more than three months, each Party shall be entitled to withdraw from the contract.

3.3

If the deliveries from BITZER are delayed, the Purchaser shall be entitled to withdraw from the contract only if BITZER is to be held responsible for the delay and if an adequate period of time set for the fulfillment of the delivery has lapsed without success.

3.4

If the Ordering Party is in default with the acceptance of the delivery or if it violates any other obligations to cooperate, BITZER, subject to the provisions of section 4.3, shall be entitled to store the goods adequately at the risk and costs of the Ordering Party. Notwithstanding its other rights, BITZER shall be entitled to withdraw from the contract if an additional period of time granted to the Ordering Party for the acceptance of the delivery has lapsed without success.

3.5

BITZER shall be entitled to provide partial deliveries if the partial delivery can be used by the Ordering Party in the framework of the contractually agreed purpose, the delivery of the remaining goods is safeguarded and no additional expenses or costs arise for the Ordering Party as a result of the partial deliveries unless BITZER agrees to bear these costs.

4 Dispatch, Passing of the Risk, Insurance

4.1

As far as the Ordering Party has given no directives, it shall be within the reasonable discretion of BITZER to dispatch the goods by an adequate means of transportation and in usual packaging.

4.2

The risk shall pass to the Ordering Party at the latest when the delivery items are handed over to the transportation or forwarding company, the carrier or any other Third Party responsible for executing the transportation or to the Ordering Party itself (the start of the loading process being decisive). This shall apply even when partial deliveries are made or when BITZER has agreed to carry out additional services (e.g. dispatch or installation). When the handing over or dispatching of the goods is delayed for reasons for which the Ordering Party is responsible, the risk shall pass to the Ordering Party on the day when a ready-for-dispatch note regarding the delivery items has been issued.

4.3

The costs for storing the goods after the risk has passed to the Ordering Party shall be borne by the Ordering Party. In case of storage by BITZER, the storage costs shall be 0.25 % of the invoice amount of the delivery items to be stored per full week.

4.4

BITZER shall insure the good against theft, breakage, transportation, fire and water damage or any other insurable damage only upon the explicit request of the Ordering Party and at the latter's costs.

5 Prices, Terms of Payment

5.1

If the Contracting Parties have not agreed a particular price, the price shall be determined by the BITZER price list valid at the date of the conclusion of the contract.

5.2

All prices of BITZER are quoted ex works without the applicable Value Added Tax and any customs fees but including the costs for the usual packaging. Any special packaging shall be invoiced separately. Any additional and special services shall be invoiced separately.

5.3

The full amount of all invoices or any equivalent payment schedules shall be due for payment immediately after receipt. In case of non-payment, the Ordering Party shall be in default 30 days after the due date and receipt of the invoice or equivalent payment schedule, at the latest, without any further notice or reminder from BITZER being required if the date for payment is not specified on the invoice or the equivalent payment schedule according to calendar.

5.4

In case of default in payment, BITZER shall be entitled to charge the applicable interest of arrears. The right to claim any further damages for default shall remain unaffected.

5.5

Drafts and checks shall only be accepted on account of performance if this has been especially agreed and without any costs or fees for BITZER; they shall be considered as payment only after they have been honored or cashed.

5.6

The Ordering Party shall be entitled to offset any amounts only if its counter-claim is undisputed or has been established as final and conclusive.

5.7

The Ordering Party shall be entitled to retain any payments only if its counter-claim is based on the same contract, is undisputed or has been established as final and conclusive.

5.8

If, after the conclusion of the contract, BITZER recognizes that there is a risk that the Purchaser might not be able to perform,

BITZER shall be entitled to provide any outstanding deliveries only against advance payment or security. If the advance payments or the securities have not been provided even after an adequate additional period granted for performance has elapsed, BITZER shall be entitled to withdraw, entirely or partially, from individual or all contracts concerned. BITZER shall be at liberty to assert any further rights.

6 Agreement on Quality without Warranty

6.1

BITZER shall warrant that the delivery item has the agreed quality at the moment of the passing of the risk; this quality shall be based exclusively on the concrete agreements concluded in writing between the Parties with respect to the properties, features and characteristics of performance of the delivery item.

6.2

BITZER has not the intention and the contract between the Parties is not designed in such a way that BITZER assumes any additional commitment (warranty) regarding the quality of the delivery item beyond the agreement on quality as defined in Paragraph 6.1.

6.3

Pursuant to Paragraph 6.2, any data contained in catalogs, price lists and any other information material provided to the Ordering Party by BITZER shall in no way be deemed to represent any kind of warranty for a particular property of the delivery item.

7 Warranty, Obligation to Inspect

7.1

In accordance with the provisions set forth below in this Section 7, BITZER shall provide warranty for any defects of the delivery items. Warranty shall not apply if the Ordering Party modifies the delivery item or has it modified by a Third Party without BITZER's consent, making thereby the remedy of defects impossible or complicating it in an unacceptable way. In any case, the Ordering Party shall bear the additional costs for the remedy of defects resulting from the modification.

7.2

The Ordering Party may claim any warranty rights only if it has inspected the delivery item after receipt and reported any defects in writing to BITZER without delay, at the latest, however, two weeks after receipt; any hidden defects must be reported in writing to BITZER immediately after they have been detected.

7.3

In case of any notice of defects, BITZER shall be entitled to inspect and examine the delivery item which is the object of the complaint.

The Ordering Party shall grant to BITZER the necessary period of time and opportunity for this purpose. BITZER shall also be entitled to request the Ordering Party to return the delivery item complained about to BITZER at the Ordering Party's costs. If a notice of defects by the Ordering Party turns out to be unjustified, the Ordering Party shall be obligated to reimburse all expenses BITZER incurred in this connection, e.g. travel expenses, installation or shipment costs.

7.4

Defects for which BITZER has to provide warranty shall be remedied by BITZER, at its own discretion, either by repairing the defect without any costs for the Ordering Party or by providing a part free from defects or by replacing the entire delivery item (supplementary performance).

7.5

The Ordering Party shall grant to BITZER the necessary period of time and opportunity for the repair or the replacement delivery. Only in urgent cases, if the operational safety is at risk or if an unproportionally high damage is to be prevented or if BITZER is in default with remedying the defect, shall the Ordering Party be entitled to remedy the defect itself or have it remedied by a Third Party once BITZER has been informed and to request the reimbursement of all necessary costs from BITZER unless the Ordering Party is responsible for bearing the costs in accordance with the last clause of Paragraph 7.3.

7.6

Any parts replaced by BITZER in the framework of supplementary performance pursuant to Paragraph 7.4 must be returned. BITZER shall be entitled to take back any defective delivery items against reimbursement even outside the warranty period.

7.7

BITZER shall not assume any warranty for damage caused by inadequate or inappropriate use of unsuitable operating materials (in particular of oils not released by BITZER), incorrect assembly, incorrect commissioning or incorrect installation by the Ordering Party or due to natural wear and tear insofar as BITZER is not responsible for the damage.

7.8

The expenses for material, shipment and labor required for the purpose of supplementary performance as well as any other costs shall be borne by BITZER except for the additional costs arising due to the fact that the delivery item is at another place than the place of its intended use.

7.9

If BITZER refuses seriously and definitely to fulfill the contract, if there are special circumstances which, carefully considering the

mutual interests, justify the immediate assertion of other rights than those laid down in Paragraph 7.4, if the remedy of defects or the replacement delivery fails, is unacceptable for the Ordering Party or is refused by BITZER in accordance with Section 439, Paragraph 3 of the German Civil Code because the costs therefor would be unproportionally high, the Ordering Party, at its discretion and in accordance with the legal provisions, may withdraw from the contract, reduce the purchase price or request damages instead of the performance (and/or, where applicable, reimbursement of its expenses).

7.10

The period of limitation for any warranty claims concerning the delivery item shall be 12 months from the date of delivery at the Ordering Party's premises or, if acceptance is required, from the day of acceptance.

If BITZER remedies the defect in the framework of supplementary performance (cf. Paragraph 7.4), the period of limitation shall be suspended for the time the remedy of the defect lasts and shall be extended accordingly. If a new item is delivered as replacement, a new period of limitation of 12 months for warranty claims shall start.

8 Damages and Limitation of Liability

8.1

The liability for damages of BITZER, irrespective of the legal cause, in particular for impossibility, default, defective or wrong delivery, violation of the contract, violation of obligations during the contract negotiations or tortious act, as far as a fault of BITZER must be given in all these cases, shall be limited in accordance with this Section 8.

8.2

BITZER shall not be liable

- (a) in case of ordinary negligence of its bodies, legal representatives, employees or any other authorized agents,
- (b) in case of gross negligence of its non-executive employees or any other authorized agents,

as far as it is not a violation of any essential contractual obligations. Essential contractual obligations are the obligation to provide deliveries and installation services in due time and free from any defects as well as any obligations of advice, protection and custody which are to permit the Ordering Party the use of the delivery item according to the contract or which aim at protecting the health and life of the Ordering Party's employees or of any Third Party or at protecting the Ordering Party's property against considerable damage.

8.3

As far as BITZER is to be held liable for damages on the merits according to Paragraph 8.2, its liability shall be limited to the damage which could be foreseen by BITZER as a possible consequence of a violation of the contract at the conclusion of the contract or which BITZER, applying due diligence, should have foreseen considering the circumstances which were known to BITZER or which BITZER should have known. Furthermore, any indirect or consequential damage resulting from a defect of the delivery item shall be compensated only as far as such damage may be typically expected in connection with the appropriate use of the delivery item.

8.4

Paragraphs 8.1 – 8.3 shall apply to all claims for damages, irrespective of their legal cause, in particular also to liability for tortious act.

8.5

The above exclusions and limitations of liability shall apply to the same extent in favor of the bodies, legal representatives, employees and any other authorized agents of BITZER.

8.6

As far as BITZER provides technical information or consultation services and this information or these consultation services do not belong to the due range of services contractually agreed, this shall be done free of charge and without any warranty.

8.7

The restrictions of this Section 8 shall not apply to liability on the part of BITZER for deliberate action, warranted properties, damage to life, limb and health or to liability under the Product Liability Act.

8.8

The Purchaser shall be obligated to take appropriate measures for preventing and minimizing damage.

9. Retention of Title

9.1

The products delivered shall remain the property of BITZER until any and all payments due to BITZER under the business relationship with the Ordering Party have been settled.

9.2

In case of current accounts, the retained property shall serve as a security for the balance claims due to BITZER.

9.3

The Ordering Party shall be entitled to sell the products delivered under retention of title only within the ordinary course of business. The Ordering Party shall not be authorized to pledge the products delivered under retention of title, to transfer them by way of security or to make any other dispositions endangering the property of BITZER. Already today, the Ordering Party assigns the claims from the resale to BITZER; BITZER accepts this assignment already today. If the Ordering Party sells the products delivered under retention of title after processing or transformation or after combination with other products or together with other products, the assignment of claims shall be deemed to have been agreed only in the amount of the part which corresponds to the price agreed between BITZER and the Ordering Party plus a security margin of 10 % of this price. The Ordering Party shall be revocably entitled to collect the claims assigned to BITZER in its own name on behalf of BITZER. BITZER may revoke this authorization as well as the right to resell the products if the Ordering Party is in default vis-à-vis BITZER with respect to essential contractual obligations such as payment.

9.4

If the products delivered under retention of title are combined with other objects, BITZER shall acquire co-ownership of the new item proportionally to the value of the products delivered by BITZER under retention of title as against the other objects at the moment of the combination. If the combination is made in such a way that the object of the Ordering Party is to be considered as the major item, it shall be deemed to have been agreed that the Ordering Party shall assign a co-ownership share to BITZER according to proportion. The co-ownership share thus created shall be maintained for BITZER by the Ordering Party.

9.5

The Ordering Party shall provide BITZER, at any time, any and all information requested concerning the products delivered under retention of title or the claims assigned to BITZER hereunder. Any access or claims to the products under retention of title by a Third Party shall be immediately reported to BITZER by the Ordering Party and all necessary documents shall be provided. At the same time, the Ordering Party shall inform the Third Party about BITZER's retention of title. The costs for defense against such access and such claims shall be borne by the Ordering Party.

9.6

During the period of the retention of title, the Ordering Party shall be obligated to treat the products delivered under retention of title with care.

9.7

If the realizable value of the securities exceeds the total of the payments due to BITZER by more than 10 %, the Ordering Party shall be entitled to request a release in this respect.

9.8

If the Ordering party is in default with essential contractual obligations, such as payment, vis-à-vis BITZER, the latter, notwithstanding any other rights, may take back the products delivered under retention of title and use them otherwise in order to satisfy its claims for payment vis-à-vis the Ordering Party. In this case, the Ordering Party shall immediately grant to BITZER or the authorized representative of BITZER access to the products delivered under retention of title and hand over these products. If BITZER requests that the products be handed over on the basis of this provision, this shall not be considered as a withdrawal from the contract.

9.9

In case of deliveries in countries with other legal systems where the retention of title specified above does not have the same securing effect as in Germany, the Ordering Party shall use its best efforts to grant similar rights of security to BITZER without delay. The Ordering Party shall cooperate in implementing all measures, such as registration, publication, etc., which are necessary for and conducive to the validity and enforceability of such rights of security.

9.10

At BITZER's request, the Ordering Party shall be obligated to insure the products delivered under retention of title in an adequate way, to provide the corresponding evidence for the insurance to BITZER and to assign the claims from the insurance contract to BITZER.

10 Product Liability

10.1

If the Ordering Party sells the delivery items without any changes or after processing, transformation or combination with other products, it shall indemnify BITZER from any claims raised for reasons of product liability by a Third Party as far as the Ordering Party is responsible for the fault that gives rise to the liability claims.

11 Industrial Property Rights

11.1

If the Ordering Party determines how BITZER is to manufacture the products by providing certain instructions, data, documents, drafts or drawings, the Ordering Party shall warrant that the rights of any Third Party, such as patents, registered utility models or any other industrial property rights or copyrights, will not be violated by BITZER. Otherwise, BITZER shall guarantee in accordance with this Section 11 that the delivery item is free from any industrial property rights or copyrights of a Third Party. Either Party shall inform the other one immediately in writing if any claims are raised towards it for violation of such rights.

11.2

In the event that the delivery item violates an industrial property right or copyright of a Third Party, BITZER, at its own discretion and its own costs, shall modify or exchange the delivery item in such a way that it no longer violates any Third Party rights but still fulfills the functions that have been contractually agreed or procure the rights of use for the Ordering Party by concluding a license agreement. If BITZER does not succeed with this within an adequate period of time, the Ordering Party shall be entitled to withdraw from the contract or to reduce the purchase price in an appropriate way. Any claims for damages of the Ordering Party shall be subject to Section 8 of these Standard Terms of Sale and Delivery.

11.3

In case of a violation of rights by products from other manufacturers delivered by BITZER, the latter, at its discretion, shall assert its claims towards the manufacturers or upstream suppliers on the account of the Ordering Party or assign them to the Ordering Party. In these cases, claims towards BITZER shall only be possible in accordance with this Section 11 if an enforcement by court order of the said claims vis-à-vis the manufacturers and upstream suppliers has failed or is futile, e.g. due to an insolvency.

12 General Provisions

12.1

Any modifications and additions to the contract and/or these Terms of Delivery as well as any additional agreements must be made writing. This shall apply also to any modification to this requirement of written form.

12.2

If one provision of the contract and/or these Terms of Sale is entirely or partially invalid, this shall have no effect on the validity of the remaining provisions. The Parties agree to replace in this case the invalid provision by a valid provision which comes closest to the economic purpose of the invalid one.

12.3

If the Ordering Party is a merchant, a legal person under public law or a special fund governed by public law, the exclusive place of jurisdiction for all disputes from the contractual relationship shall be Sindelfingen. This shall also apply if the Ordering Party does not have a legal venue in the Federal Republic of Germany or if it has moved its usual place of residence abroad after the conclusion of the contract. BITZER shall, however, be entitled to take legal action against the Ordering Party at any other place of jurisdiction available under the applicable law.

12.4

The law of the Federal Republic of Germany shall apply, the UN convention on contracts for the international sale of goods (CISG) being excluded.



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