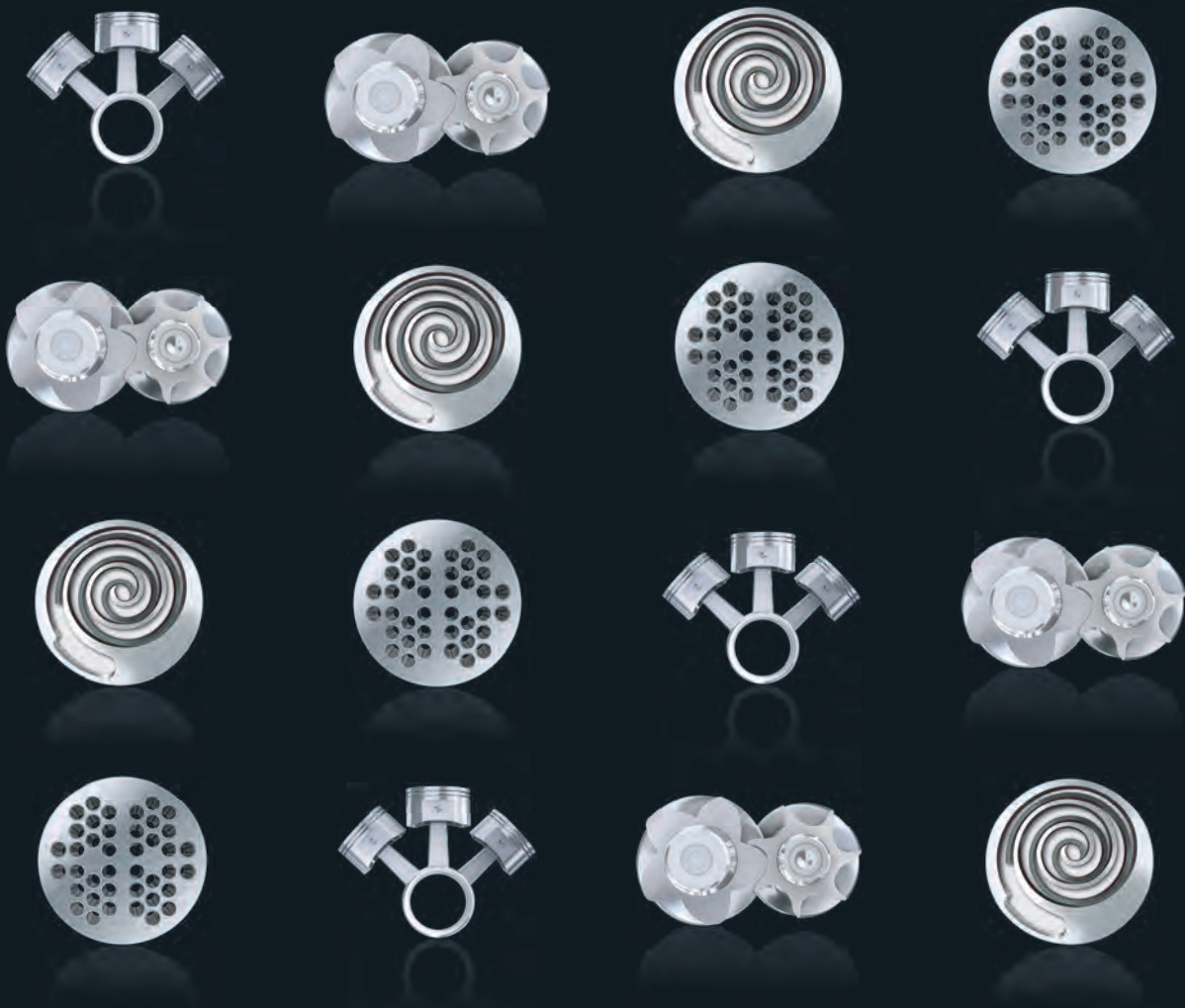


PRICE LIST 2014





Symbols

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

General changes

New page layout for improved overview
Compressor accessories listed for condensing units
Connections for pressure vessels completed
Compressor oil types included
"New" Ecoline designation omitted after successful product launch

What is new regarding products and accessories?

2NSL-05K	New Compressors for CO ₂ - Subcritical Applications
4PTC-6K	New Compressors for CO ₂ - Transcritical Applications
OSKA74..2 / OSNA74..2 / OSHA74..2	Improved series of Open Drive Screw Compressors for Ammonia
OS(A)74EX	Open Drive Screw Compressors - Explosion Proof Design and Accessories
HSK8581-125, HSK8581-160, HSK8591-140, HSK8591-180	Increased range of Semi-Hermetic Screw Compressors



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Item	ECOLINE - Single Compressors ECOLINE - Tandem Compressors		Product Series							Additional Information
			CE1 2KES .. 2FES	CE2 2EES .. 2CES 22EES .. 22CES	CE3 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				
13	Vibration Dampers	Damper Elements	S	S	S					
14		Spring Dampers				S	S	S	S	

Item	ECOLINE Compressors	Series	CE1						CE2					CE3					CE4S													
		Type	2KE5-05Y	2LE5-07Y	2HE5-1Y	2HE5-2Y	2GE5-2Y	2FE5-2Y	2FE5-3Y	2EE5-2Y	2EE5-3Y	2DE5-2Y	2DE5-3Y	2CE5-3Y	2CE5-4Y	4FE5-3Y	4FE5-5Y	4EE5-4Y	4EE5-6Y	4DE5-5Y	4DE5-7Y	4CE5-6Y	4CE5-9Y	4VE5-6Y	4VE5-7Y	4VES-10Y	4PES-10Y	4PES-12Y	4PES-15Y	4NES-12Y	4NES-14Y	4NES-20Y
		Price EUR	1.294,-	1.308,-	1.322,-	1.349,-	1.349,-	1.408,-	1.478,-	1.975,-	2.135,-	2.057,-	2.145,-	2.135,-	2.231,-	2.321,-	2.570,-	2.379,-	2.736,-	3.006,-	3.164,-	3.309,-	3.440,-	4.115,-	4.331,-	4.508,-	4.590,-	4.831,-	5.043,-	5.176,-	5.448,-	5.786,-
	Accessories	Additional Information																														
1	Motor for Special Voltage	available Motors see KT-410																														
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	S	
3	Ester Oil Charge BSE55	for HFC Refrigerants and high Condensing Temperatures; tc > 70 °C	--	O	O		O	O		O		O		O		O		O		O		O										
4	Oil Charge B5.2	"Y" 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	
5	Opto-electronic	230 V-1-50/60 Hz	215,-																													
6	Oil Level Monitoring OLC-K1	115 V-1-50/60 Hz	215,-																													
7	Crankcase Heater	0 .. 60 W-100 .. 240 V, PTC	56,-	●	●	●	●	●	●	●																						
8		0 .. 60 W-400 V, PTC	56,-	●	●	●	●	●	●	●																						
9		0 .. 120 W-200 .. 260 V, PTC	68,-									●	●	●	●	●	●	●	●	●	●	●										
11		0 .. 120 W-100 .. 140 V, PTC	68,-									●	●	●	●	●	●	●	●	●	●	●										
10		0 .. 120 W-400 V, PTC	68,-									●	●	●	●	●	●	●	●	●	●	●										
12		0 .. 140 W-200 .. 260 V, PTC	68,-																					●	●	●	●	●	●	●	●	●
13		0 .. 140 W-100 .. 140 V, PTC	68,-																					●	●	●	●	●	●	●	●	●
14	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	S	S	S	S	S	S	S	S	S	S	S	
15		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	O	O	O	O	O	O	O	O	O	O	O	
16		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	O	O	O	O	O	O	O	O	O	O	O	
17		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	O	O	O	O	O	O	O	O	O	O	O	O
18		SE-B1 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	O
19	Additional Fan	230 V-1-50/60 Hz	277,-	●	●	●	●	●	●																							
20			327,-									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
21	Discharge Gas Temperature Sensor	PTC 140 (included in Item 22 .. 29)	138,-																													



Item	ECOLINE Compressors		Series	CE1						CE2					CE3					CE4S																
			Type	2KES-05Y	2IES-07Y	2HES-1Y	2HES-2Y	2GES-2Y	2FES-2Y	2FES-3Y	2EES-2Y	2EES-3Y	2DES-2Y	2DES-3Y	2CES-3Y	2CES-4Y	4FES-3Y	4FES-5Y	4EES-4Y	4EES-6Y	4DES-5Y	4DES-7Y	4CES-6Y	4CES-9Y	4VES-6Y	4VES-7Y	4VES-10Y	4TES-8Y	4TES-9Y	4TES-12Y	4PES-10Y	4PES-12Y	4PES-15Y	4NES-12Y	4NES-14Y	4NES-20Y
			Price EUR	1.294,-	1.308,-	1.322,-	1.349,-	1.349,-	1.408,-	1.478,-	1.975,-	2.135,-	2.057,-	2.145,-	2.135,-	2.231,-	2.321,-	2.570,-	2.379,-	2.736,-	3.006,-	3.164,-	3.309,-	3.440,-	4.115,-	4.331,-	4.508,-	4.225,-	4.447,-	4.645,-	4.590,-	4.831,-	5.043,-	5.176,-	5.448,-	5.786,-
	Accessories	Additional Information																																		
22	Start Unloader (SU) Cylinder Head with Control Valve	Coil for 230 V-1-50/60 Hz	517,-																																	
23		Coil for 115 V-1-50/60 Hz	568,-																																	
24		Coil for 48 V-1-50/60 Hz	568,-																																	
25		Coil for 42 V-1-50/60 Hz	568,-																																	
26		Coil for 24 V-1-50/60 Hz	568,-																																	
27		Coil for 115 V-DC	568,-																																	
28		Coil for 48 V-DC	568,-																																	
29		Coil for 24 V-DC	568,-																																	
30		Capacity Control (CR II) Cylinder Head with Control Valve (1X)	Coil for 230 V-1-50/60 Hz	340,-																																
31	Coil for 115 V-1-50/60 Hz		391,-																																	
32	Coil for 48 V-1-50/60 Hz		391,-																																	
33	Coil for 42 V-1-50/60 Hz		391,-																																	
34	Coil for 24 V-1-50/60 Hz		391,-																																	
35	possible Residual Capacity: see KT-101		391,-																																	
36	Coil for 115 V-DC		391,-																																	
37	Coil for 48 V-DC		391,-																																	
38	Start Unloader (SU) Cylinder Head prepared	without Control Valve without PTC Sensor	123,-																																	
39	Capacity Regulator (CR II) Cylinder Head prepared (1X)	without Control Valve	84,-																																	
40	Control Valve for Item 38, 39 (1X)	Coil for 230 V-1-50/60 Hz	256,-																																	
41		Coil for Special Voltage (see Item 31 .. 37)	307,-																																	
42	Check Valve for Start Unloader		154,-																																	
43			368,-																																	
44	Oil Service Valve		73,-																																	
45	CIC-System	Controlled Injection Cooling for R407F, R407A, R22	853,-																																	
46	Terminal Box, Aluminium	Protection Class IP66	63,-																																	
47	Damper Elements		--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	O	O	O	O	O	O	O	O	O	O	O	O	

[illegible]



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	6.802,-	7.161,-	7.533,-	6.818,-	7.177,-	7.554,-	7.660,-	8.062,-	8.401,-	7.966,-	8.364,-	8.713,-	8.422,-	8.864,-	10.197,-	8.681,-	9.138,-	10.491,-	9.967,-	10.491,-	11.211,-	12.093,-	12.729,-	13.075,-	15.648,-	16.010,-	16.569,-	17.394,-
	Accessories	Additional Information																													
27	Capacity Control (CR II) Cylinder Head with Control Valve (1X) possible Residual Capacity: see KT-101	Coil for 230 V-1-50/60 Hz	340,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
28		Coil for 115 V-1-50/60 Hz	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
29		Coil for 48 V-1-50/60 Hz	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
30		Coil for 42 V-1-50/60 Hz	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
31		Coil for 24 V-1-50/60 Hz	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
32		Coil for 115 V-DC	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
33		Coil for 48 V-DC	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
34		Coil for 24 V-DC	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
35	Start Unloader (SU) Cylinder Head prepared	without Control Valve, without PTC Sensor	123,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
36	Capacity Regulator (CR II) Cylinder Head prepared (1X)	without Control Valve	84,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
37	Control Valve for Item 35, 36 (1X)	Coil for 230 V-1-50/60 Hz	256,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
38		Coil for Special Voltage (see Item 28 .. 34)	307,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
39	Check Valve for Start Unloader		368,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
40			573,-																					●	●	●					
41	Oil Service Valve	not with Position 42	73,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
42	Oil & Gas Equalizing Fittings	not with Position 41	63,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
43	Conversion Kit for Marine Application		621,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
44	CIC-System	Controlled Injection Cooling for R407F, R407A, R22	941,-		●			●			●			●																	
45			1.090,-													●			●						●						
46	Terminal Box, Aluminium	Protection Class IP66	250,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
47	Water-cooled Cylinder Heads		163,-	●	●	●	●	●	●	●	●	●	●	●																	
48			245,-												●	●	●	●	●	●	●	●	●	●	●	●					
49	Water-cooled Cylinder Heads - for Seawater	coated Cylinder Heads	387,-	●	●	●	●	●	●	●	●	●	●	●																	
50			581,-													●	●	●	●	●	●	●	●	●	●	●	●				
51	Damper Elements		--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

[illegible]



Item	ECOLINE - Tandem Compressors		Series	CE2						CE3						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	44PES-30Y	44NES-24Y	44NES-28Y	44NES-40Y
			Price EUR	4.031,-	4.357,-	4.199,-	4.381,-	4.357,-	4.553,-	4.737,-	5.249,-	4.855,-	5.582,-	6.132,-	6.449,-	6.748,-	7.016,-	8.222,-	8.654,-	9.007,-	8.440,-	8.887,-	9.276,-	9.169,-	9.652,-	10.078,-	10.339,-	10.883,-	11.564,-
	Accessories	Additional Information																											
19	Start Unloader (SU) Cylinder Heads with Control Valve (2X)	Coil for 230 V-1-50/60 Hz	1.034,-																										
20		Coil for 115 V-1-50/60 Hz	1.136,-																										
21		Coil for 48 V-1-50/60 Hz	1.136,-																										
22		Coil for 42 V-1-50/60 Hz	1.136,-																										
23		Coil for 24 V-1-50/60 Hz	1.136,-																										
24		PTC 140 (18) included (2X)	Coil for 115 V-DC	1.136,-																									
25		Coil for 48 V-DC	1.136,-																										
26		Coil for 24 V-DC	1.136,-																										
27	Capacity Control (CR II) Cylinder Head with Control Valve (1X) possible Residual Capacity: see KT-101	Coil for 230 V-1-50/60 Hz	340,-																										
28		Coil for 115 V-1-50/60 Hz	391,-																										
29		Coil for 48 V-1-50/60 Hz	391,-																										
30		Coil for 42 V-1-50/60 Hz	391,-																										
31		Coil for 24 V-1-50/60 Hz	391,-																										
32		Coil for 115 V-DC	391,-																										
33		Coil for 48 V-DC	391,-																										
34		Coil for 24 V-DC	391,-																										
35	Start Unloader (SU) Cylinder Heads prepared (2X)	without Control Valve, without PTC Sensor	246,-																										
36	Capacity Control (CR II) Cylinder Head prepared (1X)	without Control Valve	84,-																										
37	Control Valve for Item 35, 36 (1X)	Coil for 230 V-1-50/60 Hz	256,-																										
38		Coil for Special Voltage (see Item 28 .. 34)	307,-																										
39	Check Valves for Start Unloader		308,-																										
40			736,-																										
41	Oil Service Valves		146,-																										
42	CIC-Systems	Controlled Injection Cooling for R407F, R407A, R22	1.706,-																										
43	Terminal Boxes, Aluminium	Protection Class IP66	126,-																										
44	Compressor Frame		313,-																										

[illegible]



Item	ECOLINE - Tandem Compressors		Series	BE5												BE6											
			Type	44JE-26Y	44JE-30Y	44JE-44Y	44HE-30Y	44HE-36Y	44HE-50Y	44GE-40Y	44GE-46Y	44GE-60Y	44FE-50Y	44FE-56Y	44FE-70Y	66JE-44Y	66JE-50Y	66JE-66Y	66HE-50Y	66HE-56Y	66HE-70Y	66GE-60Y	66GE-68Y	66GE-80Y	66FE-80Y	66FE-88Y	66FE-100Y
			Price EUR	14.019,-	14.735,-	16.297,-	14.058,-	14.776,-	16.334,-	15.986,-	16.792,-	17.461,-	16.588,-	17.418,-	18.115,-	17.561,-	18.448,-	21.108,-	18.085,-	18.999,-	21.702,-	20.653,-	21.702,-	23.144,-	24.910,-	26.184,-	26.876,-
	Accessories	Additional Information																									
26	Capacity Control (CR II) Cylinder Head with Control Valve (1X) possible Residual Capacity: see KT-101	Coil for 230 V-1-50/60 Hz	340,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
27		Coil for 115 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
28		Coil for 48 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
29		Coil for 42 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30		Coil for 24 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
31		Coil for 115 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
32		Coil for 48 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33		Coil for 24 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
34	Start Unloader (SU) Cylinder Heads prepared (2X)	without Control Valve, without PTC Sensor	246,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35	Capacity Control (CR II) Cylinder Head prepared (1X)	without Control Valve	84,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
36	Control Valve for Item 34, 35 (1X)	Coil for 230 V-1-50/60 Hz	256,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
37		Coil for Special Voltage (see Item 27 .. 33)	307,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
38	Check Valves for Start Unloader		736,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
39			1.146,-																						•	•	•
40	Oil Service Valves	not with Item 41	146,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
41	Oil & Gas Equalizing Fittings	not with Item 40	126,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42	CIC-Systems	Controlled Injection Cooling for R407F, R407A, R22	1.882,-		•			•			•			•													
43			2.180,-														•			•						•	
44	Terminal Boxes, Aluminium	Protection Class IP66	500,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45	Water-cooled Cylinder Heads		326,-	•	•	•	•	•	•	•	•	•	•	•	•												
46			490,-													•	•	•	•	•	•	•	•	•	•	•	•
47	Water-cooled Cylinder Heads - for Seawater	coated Cylinder Heads	774,-	•	•	•	•	•	•	•	•	•	•	•	•												
48			1.162,-													•	•	•	•	•	•	•	•	•	•	•	•
49	Discharge Line for Tandem Compressors	with Muffler	792,-	•	•	•	•	•	•	•	•	•	•	•	•												
50			821,-													•	•	•	•	•	•	•	•	•			
51			1.158,-																						•	•	•
52		with Muffler and 2 Check Valves	1.818,-	•	•	•	•	•	•	•	•	•	•	•	•												
53			2.050,-													•	•	•	•	•	•	•	•	•			
54			2.874,-																						•	•	•
55	Compressor Frame		--	S	S	S	S	S	S	S	S	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	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 Damper Elements
10	Components for Interstage Cooling	Discharge Gas Temperature Sensor, Liquid Injection Valve, Sight Glass, Filter Drier, Solenoid Valve	S	S	S	2X for Tandem Types

Item	2-Stage Compressors - for Low Temperature Applications		Series	2-Stage						2-Stage Tandems				
				BS4		BS5	BS6			BS6				
			Type	S4T-5.2V	S4N-8.2V	S4G-12.2V	S6J-16.2V	S6H-20.2V	S6G-25.2V	S6F-30.2V	S66J-32.2V	S66H-40.2V	S66G-50.2V	S66F-60.2V
			Price EUR	5.870,-	6.472,-	8.967,-	11.164,-	11.449,-	12.826,-	15.104,-	22.956,-	24.224,-	26.974,-	31.541,-
	Accessories	Additional Information												
1	Motor for Special Voltage	available Motors see KT-410		294,-	324,-	448,-	558,-	572,-	641,-	756,-	1.148,-	1.212,-	1.349,-	1.577,-
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" Designation omitted	--	O	O	O	O	O	O	O	O	O	O	O
4	Oil Pressure Monitoring MP54	230 V-1-50/60 Hz - Tandem: 2X	237,-	•	•	•	•	•	•	•				
5			474,-								•	•	•	•
6	Oil Pressure Monitoring Delta P II	115 .. 230 V-1-50/60 Hz - Tandem: 2X	215,-	•	•	•	•	•	•	•				
7			430,-								•	•	•	•
8	Crankcase Heater (Tandem: 2 X)	100 W, 230 V	73,-	•	•									
9		100 W, 115 V	73,-	•	•									
10		100 W, 400 V	73,-	•	•									
11		140 W, 230 V	77,-			•	•	•	•	•				
12		140 W, 115 V	77,-			•	•	•	•	•				
13		140 W, 24 V	77,-			•	•	•	•	•				
14		140 W, 400 V	77,-			•	•	•	•	•				
15		140 W, 230 V	154,-								•	•	•	•
16		140 W, 115 V	154,-								•	•	•	•
17		140 W, 24 V	154,-								•	•	•	•
18	140 W, 400 V	154,-								•	•	•	•	
19	Motor Protection Device (Tandem: 2 X)	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 - Tandem: 2X	138,-	•	•	•	•	•	•	•				
25			276,-									•	•	•
26	Oil Service Valve	- Tandem: 2X	73,-	•	•	•	•	•	•	•				
27			146,-									•	•	•
28	Conversion Kit for Marine Application		465,-	•	•									
29			814,-			•	•	•	•	•				

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	5.870,-	6.472,-	8.967,-	11.164,-	11.449,-	12.826,-	15.104,-	22.956,-	24.224,-	26.974,-	31.541,-
	Accessories	Additional Information												
30	Liquid Subcooler - assembled	Liquid Subcooler, Liquid Injection Valve sized for Operation with Subcooler; complete with Piping (Components assembled and insulated) - Tandem: 2X	1.210,-	●	●	●								
31			1.490,-				●	●	●	●				
32			2.980,-							●	●	●	●	
33	Liquid Subcooler - enclosed	Liquid Subcooler, Liquid Injection Valve sized for Operation with Subcooler; (Piping Elements and Insulation not included, Kit not assembled) - Tandem: 2X	473,-	●	●	●								
34			587,-				●	●	●	●				
35			1.174,-							●	●	●	●	
36	Electronic Interstage Cooling CIC System	CIC Controle Module; Temperature Sensors and Pulse operated Valve (for R407F, R407A, R22) - Tandem: 2X	--	○	○	○	○	○	○	○	○	○		
37	Terminal Box, Aluminium	Protection Class IP66 - Tandem: 2X	250,-	●	●	●	●	●	●					
38			500,-							●	●	●	●	

Item	CO ₂ Compressors		Product Series						Additional Information
			for subcritical Applications "SL" Series				for transcritical Applications		
			CH1 2NSL .. 2FSL	CH2 2ESL .. 2CSL	CH3 4FSL .. 4CSL	CH4 4VSL .. 4NSL	CKH3 4PTC .. 4KTC	CKH4 4JTC .. 4CTC	
Extent of Delivery									
1	Motor with PTC Sensors	Star/Delta Type Y/Δ	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	200 .. 260 V, PTC
4	Connection Suction Line	Blind Flange					S	S	
5		Shut-off Valve	S	S	S	S			
6	Connection Discharge Line	Blind Flange					S	S	
7		Shut-off Valve	S	S	S	S			
8	Oil Charge	BSE60K (Ester Oil)	S	S	S	S			
9		BSE85K (Ester Oil)					S	S	
10	Sight Glass		S	S	S	S	S	S	
11	Motor Protection Device	SE-B1	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	
13	Bearing Cover for opto-electronic Oil Level Monitoring OLC-K1	for simplified Retrofitting				S			
14	Pressure Relief Valve	external, on Suction Side	S	S	S	S			
15		external, on Discharge Side					S	S	
16	Vibration Dampers								



Item	Compressors for CO ₂ - Subcritical and Transcritical Applications		Series	CO2 - Subcritical Applications ("SL"-Series)																CO2 - Transcritical Applications															
				CH1						CH2			CH3			CH4				CKH3				CKH4											
			Type	2NSL-05K	2MSL-07K	2KSL-1K	2JSL-2K	2HSL-3K	2GSL-3K	2FSL-4K	2ESL-4K	2DSL-5K	2CSL-6K	4PSL-7K	4ESL-9K	4DSL-10K	4CSL-12K	4VSL-15K	4TSL-20K	4PSL-25K	4NSL-30K	4PTC-6K	4PTC-7K	4MTC-7K	4MTC-10K	4KTC-10K	4JTC-10K	4ITC-15K	4HTC-15K	4HTC-20K	4FTC-20K	4FTC-30K	4DTC-25K	4CTC-30K	
			Price EUR	2.166,-	2.215,-	2.220,-	2.245,-	2.313,-	2.324,-	2.344,-	3.332,-	3.348,-	3.482,-	3.816,-	4.061,-	4.695,-	5.107,-	6.214,-	6.399,-	6.951,-	7.974,-	5.989,-	6.233,-	6.377,-	6.742,-	6.897,-	7.434,-	7.601,-	7.887,-	8.206,-	9.195,-	9.950,-	10.273,-	11.011,-	
	Accessories	Additional Information																																	
1	Motor for Special Voltage	available Motors see KT-410		108,-	111,-	111,-	112,-	116,-	116,-	117,-	167,-	167,-	174,-	191,-	203,-	235,-	255,-	311,-	320,-	348,-	399,-	299,-					345,-	372,-	380,-	394,-	410,-	460,-	498,-	514,-	551,-
2	Ester Oil Charge BSE60K	for Cascade Applications	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S														
3	Ester Oil Charge BSE85K	for "SL" Series: e.g. for Booster Applications	--	O	O	O	O	O	O	O	O	O		O	O	O	O	O	O	O	O	S	S	S	S	S	S	S	S	S	S	S	S	S	
4	Oil Charge BSG68K (PAG)	for Applications with LP > 40 bar and/or HP > 120 bar	--																			O	O	O	O	O	O	O	O	O	O	O	O	O	
5	Opto-electronic Oil Level Monitoring	230 V-1-50/60 Hz	215,-																																
6	OLC-K1	115 V-1-50/60 Hz	215,-																																
7	Crankcase Heater	0 .. 60 W-100 .. 240 V, PTC	56,-																																
8		0 .. 60 W- 400 V, PTC	56,-																																
9		0 .. 120 W-200 .. 260 V, PTC	68,-																				S	S	S	S	S								
10		0 .. 120 W-100 .. 140 V, PTC	68,-																				O	O	O	O	O								
11		0 .. 120 W .. 400 V, PTC	68,-																																
12		0 .. 140 W-200 .. 260 V, PTC	68,-																									S	S	S	S	S	S	S	S
13		0 .. 140 W-100 .. 140 V, PTC	68,-																									O	O	O	O	O	O	O	O
14	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	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
15		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	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
16		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	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
17		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	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
18		SE-B1 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	O	O	O	O
19	Discharge Gas Temperature Sensor	PTC 140	138,-																																
20	Suction Connection (for CO ₂ Compressors - transcritical)	Blind Flange	--																		S	S	S	S	S	S	S	S	S	S	S	S	S		
21		Shut-off Valve D22 (for Brazing)	63,-																																
22		Shut-off Valve D28 (for Brazing)	63,-																																
23	Discharge Connection (for CO ₂ Compressors - transcritical)	Blind Flange	--																		S	S	S	S	S	S	S	S	S	S	S	S	S	S	
24		Shut-off Valve Swagelok DN18	345,-																																
25		Shut-off Valve DN18 (for Brazing)	152,-																																
26		Shut-off Valve DN10 (for Welding)	152,-																																
27		Shut-off Valve DN16 (for Welding)	152,-																																
28	Pressure Relief Valve	Suction Side 30 bar	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S															
29		Suction Side 90 bar	246,-																																
30		Discharge Side 148 bar	--																			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, 66FEP-100P
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	SE-B2, not mounted in Terminal Box	S	S	S	S	S	S	S	for 230 V-1-50/60 Hz
8	Terminal Box, Plastic	Enclosure Class IP65	S	S	S	S				
9	Terminal Box, Aluminium or Sheet Steel	Enclosure Class IP54					S	S	S	
10	Pressure Relief Valve		S	S	S	S	S	S	S	
11	Vibration Dampers	Damper Elements	S	S	S					
12		Spring Dampers				S	S	S	S	

[illegible]



Item	ECOLINE Compressors for R290 / R1270		Series	CEP1							CEP2					CEP3						CEP4S									
			Type	2KESP-05P	2IESP-07P	2HESP-1P	2HESP-2P	2GESp-2P	2FESP-2P	2FESP-3P	2EESP-2P	2EESP-3P	2DES-2P	2DES-3P	2CESP-3P	2CESP-4P	4EESP-3P	4EESP-5P	4EESP-4P	4EESP-6P	4DES-5P	4DES-7P	4CESP-6P	4CESP-9P	4VESP-7P	4VESP-10P	4TESP-9P	4TESP-12P	4PESP-15P	4NESP-14P	4NESP-20P
			Price EUR	1.508,-	1.519,-	1.535,-	1.563,-	1.563,-	1.622,-	1.691,-	2.190,-	2.351,-	2.271,-	2.359,-	2.351,-	2.446,-	2.534,-	2.787,-	2.593,-	2.949,-	3.220,-	3.377,-	3.523,-	3.657,-	4.544,-	4.721,-	4.660,-	4.858,-	5.043,-	5.256,-	5.660,-
	Accessories	Additional Information																													
17	Start Unloader (SU) Cylinder Head with Control Valve (1X)	Coil for 230 V-1-50/60 Hz	517,-																												
18		Coil for 115 V-1-50/60 Hz	568,-																												
19		Coil for 48 V-1-50/60 Hz	568,-																												
20		Coil for 42 V-1-50/60 Hz	568,-																												
21		Coil for 24 V-1-50/60 Hz	568,-																												
22		PTC 140 (16) included	Coil for 115 V-DC	568,-																											
23			Coil for 48 V-DC	568,-																											
24			Coil for 24 V-DC	568,-																											
25	Capacity Control (CR II) Cylinder Head with Control Valve (1X)	Coil for 230 V-1-50/60 Hz	340,-																												
26		Coil for 115 V-1-50/60 Hz	391,-																												
27		Coil for 48 V-1-50/60 Hz	391,-																												
28		Coil for 42 V-1-50/60 Hz	391,-																												
29		Coil for 24 V-1-50/60 Hz	391,-																												
30		possible Residual Capacity see KT-101	Coil for 115 V-DC	391,-																											
31			Coil for 48 V-DC	391,-																											
32			Coil for 24 V-DC	391,-																											
33	Start Unloader (SU) Cylinder Head prepared	without Control Valve, without PTC Sensor	123,-																												
34	Capacity Control (CR II) Cylinder Head prepared	without Control Valve	84,-																												
35	Control Valve for Item 33, 34 (1X)	Coil for 230 V-1-50/60 Hz	256,-																												
36		Coil for Special Voltage (see Item 26 .. 32)	307,-																												
37	Check Valve for Start Unloader		154,-																												
38			368,-																												
39	Oil Service Valve		73,-																												
40	Terminal Box, Aluminium	Protection Class IP66	63,-																												
41	Damper Elements		--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	O	O	O	O	O	O	O	O

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	7.161,-	7.533,-	7.177,-	7.554,-	8.062,-	8.401,-	8.364,-	8.713,-	8.864,-	10.196,-	9.137,-	10.491,-	10.491,-	11.211,-	12.729,-	13.075,-	15.648,-	16.010,-	16.569,-	17.394,-
	Accessories	Additional Information																					
1	Motor for Special Voltage	available Motors see KT-410		358,-	377,-	359,-	378,-	403,-	420,-	418,-	436,-	443,-	510,-	457,-	525,-	525,-	561,-	636,-	654,-	782,-	801,-	828,-	870,-
2	Oil Pressure Monitoring MP55	without Timer Relais; 230 V-1-50/60 Hz	515,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3	Oil Pressure Monitoring Delta P II Reed	without Evaluation Electronics	215,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	Crankcase Heater	140 W, 230 V	77,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5		140 W, 115 V	77,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6		140 W, 24 V	77,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7		140 W, 400 V	77,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	Motor Protection Device (not mounted in Terminal Box)	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	421,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
14	Discharge Gas Temperature Sensor	PTC 140 (included in Item 16 .. 23)	138,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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	Coil for 230 V-1-50/60 Hz	517,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
17		Coil for 115 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
18		Coil for 48 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
19		Coil for 42 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
20		Coil for 24 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
21	PTC 140 (14) included	Coil for 115 V-DC	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
22		Coil for 48 V-DC	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
23		Coil for 24 V-DC	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				



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	8FEP-70P
			Price EUR	7.161,-	7.533,-	7.177,-	7.554,-	8.062,-	8.401,-	8.364,-	8.713,-	8.864,-	10.196,-	9.137,-	10.491,-	10.491,-	11.211,-	12.729,-	13.075,-	15.648,-	16.010,-	16.569,-	17.394,-
	Accessories	Additional Information																					
24	Capacity Control (CR II) Cylinder Head with Control Valve (1X) possible Residual Capacity see KT-101	Coil for 230 V-1-50/60 Hz	340,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
25		Coil for 115 V-1-50/60 Hz	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
26		Coil for 48 V-1-50/60 Hz	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
27		Coil for 42 V-1-50/60 Hz	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
28		Coil for 24 V-1-50/60 Hz	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
29		Coil for 115 V-DC	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
30		Coil for 48 V-DC	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
31		Coil for 24 V-DC	391,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
32	Start Unloader (SU) Cylinder Head prepared	without Control Valve, without PTC Sensor	123,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
33	Capacity Control (CR II) Cylinder Head prepared	without Control Valve	84,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
34	Control Valve for Item 32, 33 (1X)	Coil for 230 V-1-50/60 Hz	256,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
35		Coil for Special Voltage (see Item 25 .. 31)	307,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
36	Check Valve for Start Unloader		368,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
37			573,-															●	●				
38	Oil Service Valve	not with (39)	73,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
39	Oil & Gas Equalizing Fittings	not with (38)	63,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
40	Conversion Kit for Marine Application		621,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
41	Terminal Box, Aluminium	Protection Class IP66	250,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
42	Water-cooled Cylinder Heads		163,-	●	●	●	●	●	●	●	●												
43			245,-									●	●	●	●	●	●	●	●				
44	Water-cooled Cylinder Heads - for Seawater	coated Cylinder Heads	387,-	●	●	●	●	●	●	●	●												
45			581,-									●	●	●	●	●	●	●	●				
46	Damper Elements		--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

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	5.069,-	5.574,-	5.187,-	5.898,-	6.440,-	6.754,-	7.045,-	7.314,-	9.098,-	9.453,-	9.332,-	9.725,-	10.099,-	10.524,-	11.331,-	12.008,-
	Accessories	Additional Information																	
1	Motors for Special Voltage	available Motors see KT-410		253,-	279,-	259,-	295,-	322,-	338,-	352,-	366,-	455,-	473,-	467,-	486,-	505,-	526,-	567,-	600,-
2	Crankcase Heaters	0 .. 120 W-200 .. 260 V, PTC	136,-	•	•	•	•	•	•	•	•								
3		0 .. 120 W-100 .. 140 V, PTC	136,-	•	•	•	•	•	•	•	•								
4		0 .. 120 W .. 400 V, PTC	136,-	•	•	•	•	•	•	•	•								
5		0 .. 140 W-200 .. 260V, PTC	136,-									•	•	•	•	•	•	•	•
6		0 .. 140 W-100 .. 140 V, PTC	136,-									•	•	•	•	•	•	•	•
7	Motor Protection Devices	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 Fans	for 230 V-1-50/60 Hz	654,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13	Discharge Gas Temperature Sensors	PTC 140 (included in Item 14 .. 21)	276,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14	Start Unloader (SU) Cylinder Heads with Control Valve (2X)	Coil for 230 V-1-50/60 Hz	1.034,-									•	•	•	•	•	•	•	•
15		Coil for 115 V-1-50/60 Hz	1.136,-									•	•	•	•	•	•	•	•
16		Coil for 48 V-1-50/60 Hz	1.136,-									•	•	•	•	•	•	•	•
17		Coil for 42 V-1-50/60 Hz	1.136,-									•	•	•	•	•	•	•	•
18		Coil for 24 V-1-50/60 Hz	1.136,-									•	•	•	•	•	•	•	•
19		PTC 140 (13) included (2X)	1.136,-									•	•	•	•	•	•	•	•
20		Coil for 115 V-DC	1.136,-									•	•	•	•	•	•	•	•
21		Coil for 48 V-DC	1.136,-									•	•	•	•	•	•	•	•
		Coil for 24 V-DC	1.136,-									•	•	•	•	•	•	•	•



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	5.069,-	5.574,-	5.187,-	5.898,-	6.440,-	6.754,-	7.045,-	7.314,-	9.098,-	9.453,-	9.332,-	9.725,-	10.099,-	10.524,-	11.331,-	12.008,-
	Accessories	Additional Information																	
22	Capacity Control (CR II) Cylinder Head with Control Valve (1X) possible Residual Capacity see KT-101	Coil for 230 V-1-50/60 Hz	340,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
23		Coil for 115 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
24		Coil for 48 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25		Coil for 42 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
26		Coil for 24 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
27		Coil for 115 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
28		Coil for 48 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
29		Coil for 24 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30	Start Unloader (SU) Cylinder Head prepared (2X)	without Control Valve, without PTC Sensor	246,-									•	•	•	•	•	•	•	•
31	Capacity Control (CR II) Cylinder Head prepared	without Control Valve	84,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
32	Control Valve for Item 30, 31 (1X)	Coil for 230 V-1-50/60 Hz	256,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33		Coil for Special Voltage (see Item 23 .. 29)	307,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
34	Check Valve for Start Unloader		308,-									•	•	•	•				
35			736,-													•	•	•	•
36	Oil Service Valves		146,-									•	•	•	•	•	•	•	•
37	Terminal Box, Aluminium	Protection Class IP66	126,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
38	Compressor Frame		313,-									•	•	•	•	•	•	•	•

Item	VARISPEED Compressors with integrated Frequency Inverter		Product Series				Additional Information
			ECOLINE			OCTAGON	
			CE2F 2DES	CE3F 4FES .. 4CES	CE4SF 4VES .. 4NES	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	Sight Glass		S	S	S	S	
9	Motor Protection Device	SE-B1	S	S	S	S	for 230 V-1-50/60 Hz
10	Terminal Box, Aluminium	Enclosure Class IP54	S	S	S	S	
11	Bearing Cover for opto-electronic Oil Level Monitoring OLC-K1	for simplified Retrofitting			S		
12	Pressure Relief Valve					S	
13	Vibration Dampers	Damper Elements	S	S		S	
14		Spring Dampers			S		



Item	VARISPEED Compressors with integrated Frequency Inverter		Series	ECOLINE															OCTAGON		
				CE2F	CE3F					CE4SF					CKH3F - CO ₂						
			Type	2DES-3.F1Y	4FES-5.F1Y	4EES-6.F1Y	4DES-5.F1Y	4DES-7.F3Y	4CES-6.F1Y	4CES-9.F3Y	4VES-7.F3Y	4VES-10.F4Y	4TES-9.F3Y	4TES-12.F4Y	4PES-12.F3Y	4PES-15.F4Y	4NES-14.F3Y	4NES-20.F4Y	4PTC-7.F3K	4MTC-10.F4K	4KTC-10.F4K
				Price EUR	5.428,-	5.988,-	6.169,-	6.610,-	7.001,-	6.760,-	7.136,-	7.699,-	9.034,-	7.809,-	9.171,-	8.174,-	9.570,-	8.759,-	10.313,-	9.817,-	11.269,-
	Accessories	Additional Information																			
1	Ester Oil Charge BSE32	for HFC Refrigerants	--	S	S	S	S	S	S	S	S	S	S	S	S	S					
2	Ester Oil Charge BSE55	for HFC Refrigerants and high Condensing Temperatures	--	O	O	O	O	O	O	O	O	O	O	O	O	O					
3	Ester Oil Charge BSE85K		--														S	S	S		
4	Opto-electronic Oil Level Monitoring OLC-K1	230 V-1-50/60 Hz	215,-		●	●	●	●	●	●	●	●	●	●	●	●					
5		115 V-1-50/60 Hz	215,-		●	●	●	●	●	●	●	●	●	●	●	●					
6	Crankcase Heater	0 .. 120 W-200 .. 260 V, PTC	68,-	●	●	●	●	●	●								S	S	S		
7		0 .. 120 W-100 .. 140 V, PTC	68,-	●	●	●	●	●	●								O	O	O		
8		0 .. 120 W .. 400 V, PTC	68,-	●	●	●	●	●	●								O	O	O		
9		0 .. 140 W-200 .. 260 V, PTC	68,-							●	●	●	●	●	●	●					
10		0 .. 140 W-100 .. 140 V, PTC	68,-							●	●	●	●	●	●	●					
11	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		
12		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		
13		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		
14		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		
15		SE-B1 for 24 V-DC	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
16	Additional Fan	for 230 V-1-50/60 Hz	327,-	●	●	●	●	●	●	●	●	●	●	●	●	●					
17	Discharge Gas Temperature Sensor	PTC 140	138,-		●	●	●	●	●	●	●	●	●	●	●	●					
18	Oil Service Valve		73,-							●	●	●	●	●	●	●					
19	Sound Jacket	only AC / HT (R134a) and MT (R134a/ R404A)	588,-		●	●	●	●	●												
20			606,-							●	●	●	●	●	●	●					
21	Suction Shut-off Valve (OCTAGON VARISPEED for CO ₂)	Brazing Connection D22	63,-														●	●	●		
22	Discharge Shut-off Valve (OCTAGON VARISPEED for CO ₂)	Swagelok Connection DN18	345,-														●	●	●		
23		Brazing Connection DN18	152,-														●	●	●		
24		Welding Connection DN10	152,-														●	●	●		
25	Pressure Relief Valve (OCTAGON VARISPEED for CO ₂)	Suction Side 90 bar	246,-														●	●	●		
26	BEST Converter - for "BITZER Electronic Service Tool"	Interface Converter Device with Cable Kit; Part No. 34431401	643,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		



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



Item	<ul style="list-style-type: none">• Models for R410A• ECOLINE in Single Phase Version• ".2" Compressor Series B4• ECOLINE CE4 (Version with Oil Pump)		Product Series						Additional Information
			R410A		1-Phase		".2" Series	Version with Oil Pump	
			CD3 4FDC .. 4CDC	CD4 4VDC .. 4NDC	C1E 2KES .. 2FES	C2E 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-Y/YY 440-480 V-3-60 Hz-Y/YY
3		for Single Phase Operation with Start Relay, Start and Run Capacitor			S	S			on Request. 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	Damper Elements	S	S	S	S			
16		Spring Dampers					S	S	

Item	<ul style="list-style-type: none"> Models for R410A ECOLINE - Single Phase Version 		Series	for R410A								with Single Phase Motor							
				CD3				CD4				CE1E				CE2E			
			Type	4FDC-5Y	4EDC-6Y	4DDC-7Y	4CDC-9Y	4VDC-10Y	4TDC-12Y	4PDC-15Y	4NDC-20Y	2KES-05.EY	2IES-07.EY	2HES-1.EY	2HES-2.EY	2GES-2.EY	2FES-2.EY	2EES-3.EY	2CES-3.EY
			Price EUR	3.087,-	3.285,-	3.795,-	4.131,-	5.185,-	5.341,-	5.801,-	6.657,-	1.553,-	1.570,-	1.586,-	1.619,-	1.619,-	1.690,-	2.562,-	2.574,-
	Accessories	Additional Information																	
1	Motor for Special Voltage	available Motors see KT-410; CE1E, CE2E: Information about application range mandatory; available Single Phase Motor Kits on Request		154,-	165,-	190,-	207,-	259,-	267,-	289,-	333,-	✓	✓	✓	✓	✓	✓	✓	✓
2	Ester Oil Charge BSE32	for HFC Refrigerants	--									✓	✓	✓	✓	✓	✓	✓	✓
3	Ester Oil Charge BSE55	for HFC Refrigerants and high Condensing Temperatures	--	✓	✓	✓	✓	✓	✓	✓	✓	○	○	○	○	○	○	○	○
4	Oil Charge B5.2	"Y" Designation omitted	--									○	○	○	○	○	○	○	○
5	Opto-electronic Oil Level Monitoring	230 V-1-50/60 Hz	215,-	●	●	●	●	●	●	●	●								
6	OLC-K1	115 V-1-50/60 Hz	215,-	●	●	●	●	●	●	●	●								
7	Crankcase Heater	0 .. 60 W-100 .. 240 V, PTC	56,-									●	●	●	●	●			
8		0 .. 60 W-400 V, PTC	56,-									●	●	●	●	●			
9		0 .. 120 W-200 .. 260 V, PTC	68,-	●	●	●	●											●	●
10		0 .. 120 W-100 .. 140 V, PTC	68,-	●	●	●	●											●	●
11		0 .. 120 W- 400 V, PTC	68,-	●	●	●	●											●	●
12		0 .. 140 W-200 .. 260 V, PTC	68,-					●	●	●	●								
13		0 .. 140 W-100 .. 140 V, PTC	68,-					●	●	●	●								
14	Motor Protection Device	SE-B1 for 230 V-1-50/60 Hz	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15		SE-B1 for 115 V-1-50/60 Hz	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
16		SE-B1 for 24 V-1-50/60 Hz	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
17		SE-B1 for 42 V-1-50/60 Hz	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
18		SE-B1 for 24 V-DC	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
19	Additional Fan	230 V-1-50/60 Hz	277,-									●	●	●	●	●			
20			327,-	●	●	●	●	●	●	●	●							●	●
21	Discharge Gas Temperature Sensor	PTC 140 (included in Item 22 .. 29)	138,-	●	●	●	●	●	●	●	●								

Item	Models for R410A		Series	for R410A					
				CD3			CD4		
			Type	4FDC-5Y	4EDC-6Y	4DDC-7Y	4CDC-9Y	4VDC-10Y	4TDC-12Y
			Price EUR	3.087,-	3.285,-	3.795,-	4.131,-	5.185,-	5.341,-
	Accessories	Additional Information							
22	Start Unloader (SU) Cylinder Head with Control Valve (1X)	Coil for 230 V-1-50/60 Hz	517,-					•	•
23		Coil for 115 V-1-50/60 Hz	568,-					•	•
24		Coil for 48 V-1-50/60 Hz	568,-					•	•
25		Coil for 42 V-1-50/60 Hz	568,-					•	•
26		Coil for 24 V-1-50/60 Hz	568,-					•	•
27	PTC 140 (21) included	Coil for 115 V-DC	568,-					•	•
28		Coil for 48 V-DC	568,-					•	•
29		Coil for 24 V-DC	568,-					•	•
30	Capacity Control (CR II) Cylinder Head with Control Valve (1X)	Coil for 230 V-1-50/60 Hz	340,-	•	•	•	•	•	•
31		Coil for 115 V-1-50/60 Hz	391,-	•	•	•	•	•	•
32		Coil for 48 V-1-50/60 Hz	391,-	•	•	•	•	•	•
33		Coil for 42 V-1-50/60 Hz	391,-	•	•	•	•	•	•
34		Coil for 24 V-1-50/60 Hz	391,-	•	•	•	•	•	•
35	possible Residual Capacity see KT-101	Coil for 115 V-DC	391,-	•	•	•	•	•	•
36		Coil for 48 V-DC	391,-	•	•	•	•	•	•
37		Coil for 24 V-DC	391,-	•	•	•	•	•	•
38	Start Unloader (SU) Cylinder Head prepared	without Control Valve, without PTC Sensor	123,-					•	•
39	Capacity Control (CR II) Cylinder Head (1X) prepared	without Control Valve	84,-	•	•	•	•	•	•
40	Control Valve for Item 38, 39 (1X)	Coil for 230 V-1-50/60 Hz	256,-	•	•	•	•	•	•
41		Coil for Special Voltage (see Item 31 .. 37)	307,-	•	•	•	•	•	•
42	Check Valve for Start Unloader		154,-					•	•
43			368,-						•

Item	• ".2" Compressor Series B4 • ECOLINE CE4 (Version with Oil Pump)		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	4.683,-	4.833,-	5.003,-	5.207,-	5.139,-	5.361,-	5.582,-	5.824,-	6.293,-	6.683,-	4.240,-	4.463,-	4.645,-	4.353,-	4.582,-	4.786,-	4.729,-	4.978,-	5.196,-	5.333,-	5.613,-
	Accessories	Additional Information																							
1	Motor for Special Voltage	available Motors see KT-410		234,-	242,-	250,-	260,-	257,-	268,-	279,-	291,-	315,-	334,-	212,-	223,-	232,-	218,-	229,-	239,-	236,-	249,-	260,-	267,-	281,-	298,-
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 and 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" Designation omitted	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
5	Oil Pressure Monitoring MP54	115/230 V-1-50/60 Hz	237,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
6	Oil Pressure Monitoring Delta P II	115 .. 230 V-1-50/60 Hz	215,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
7	Crankcase Heater	0 .. 140 W-200 .. 260 V, PTC	68,-											●	●	●	●	●	●	●	●	●	●	●	
8		0 .. 140 W-100 .. 140 V, PTC	68,-											●	●	●	●	●	●	●	●	●	●	●	
9		100 W, 230 V	73,-	●	●	●	●	●	●	●	●	●	●												
10		100 W, 115 V	73,-	●	●	●	●	●	●	●	●	●	●												
11		100 W, 400 V	73,-	●	●	●	●	●	●	●	●	●	●												
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	O	
14		SE-B1 for 24 V-1-50/60 Hz	--											O	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	O	
16		SE-B1 for 24 V-DC	--											O	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												
18		SE-B2 for 115 V-1-50/60 Hz	--	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												
20		SE-B2 for 42 V-1-50/60 Hz	--	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												
22	Additional Fan	230 V-1-50/60 Hz	327,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
23	Discharge Gas Temperature Sensor	PTC 140 (included in Item 24 .. 31)	138,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Item	<div>• ".2" Compressor Series B4</div> <div>• ECOLINE CE4 (Version with Oil Pump)</div>		Series	".2"-Compressor Series										ECOLINE											
				B4										CE4 (Special Version with Oil Pump)											
			Type	4Z-5.2V	4Z-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	4.683,-	4.833,-	5.003,-	5.207,-	5.139,-	5.361,-	5.582,-	5.824,-	6.293,-	6.683,-	4.240,-	4.463,-	4.645,-	4.353,-	4.582,-	4.786,-	4.729,-	4.978,-	5.196,-	5.333,-	5.613,-
Accessories		Additional Information																							
24	Start Unloader (SU) Cylinder Head with Control Valve (1X) PTC 140 (23) included	Coil for 230 V-1-50/60 Hz	517,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
25		Coil for 115 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
26		Coil for 48 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
27		Coil for 42 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
28		Coil for 24 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
29		Coil for 115 V-DC	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
30		Coil for 48 V-DC	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
31	Coil for 24 V-DC	568,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
32	Capacity Control Cylinder Head with Control Valve (1X) (B4: CR / CE4: CR II) possible Residual Capacity see KT-100 (CR) / KT-101 (CR II)	Coil for 230 V-1-50/60 Hz	340,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
33		Coil for 115 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
34		Coil for 48 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
35		Coil for 42 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
36		Coil for 24 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
37		Coil for 115 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
38		Coil for 48 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
39	Coil for 24 V-DC	391,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
40	Start Unloader (SU) Cylinder Head prepared	without Control Valve, without PTC Sensor	123,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
41	Capacity Control (CR / CR II) Cylinder Head (1X) prepared	without Control Valve	84,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
42	Control Valve for Item 40, 41 (1X)	Coil for 230 V-1-50/60 Hz	256,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
43		Coil for Special Voltage (see Item 33 .. 39)	307,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
44	Check Valve for Start Unloader		154,-	•	•	•	•	•				•	•	•	•	•									
45			368,-						•	•	•	•						•	•	•	•	•	•		
46	Oil Service Valve	not with Item 47	73,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
47	Oil & Gas Equalizing Fittings	not with Item 46	63,-	•	•	•	•	•	•	•	•	•													
48	Conversion Kit for Marine Application		465,-	•	•	•	•	•	•	•	•	•													
49	CIC-System	Controlled Injection Cooling for R407F, R407A, R22	853,-	•		•		•		•			•		•			•				•			
50	Terminal Box	Protection Class IP66	250,-	•	•	•	•	•	•	•	•														
51	Water-cooled Cylinder Heads		147,-	•	•	•	•	•	•	•	•														
52	Water-cooled Cylinder Heads - for Seawater	coated Cylinder Heads	371,-	•	•	•	•	•	•	•	•														

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Item	Air-cooled Condensing Units with ECOLINE Compressors		Series	ECOLINE																												ECOLINE - Tandem								
			Type	LH32/2KES-05Y	LH32/2IES-07Y	LH33/2HES-1Y	LH33/2HES-2Y	LH33/2GES-2Y	LH44/2GES-2Y	LH44/2FES-2Y	LH44/2FES-3Y	LH44/2EES-2Y	LH64/2EES-3Y	LH53/2DES-2Y	LH64/2DES-3Y	LH64/2CES-3Y	LH84/2CES-4Y	LH64/4FES-3Y	LH84/4FES-5Y	LH64/4EES-4Y	LH84/4EES-6Y	LH84/4DES-5Y	LH104/4DES-7Y	LH84/4CES-6Y	LH114/4CES-9Y	LH104/4TES-9Y	LH114/4TES-12Y	LH135/4PES-15Y	LH114/4PES-12Y	LH114/44FES-10Y	LH114/44EES-8Y	LH124/44EES-12Y	LH124/44DES-10Y	LH135/44DES-14Y	LH135/44CES-18Y					
				Price EUR	2.304,-	2.312,-	2.337,-	2.359,-	2.359,-	2.498,-	2.558,-	2.627,-	3.128,-	3.755,-	3.478,-	3.764,-	3.755,-	4.291,-	3.938,-	4.628,-	3.998,-	4.793,-	5.070,-	6.503,-	5.371,-	7.227,-	7.814,-	8.424,-	8.610,-	11.112,-	9.826,-	11.859,-	9.182,-	9.689,-	9.299,-	12.030,-	12.582,-	13.133,-	13.430,-	13.692,-
	Accessories <i>COMPRESSOR</i>	Additional Information																																						
29	Motor for Special Voltage	available Motors see KT-410		65,-	65,-	66,-	67,-	67,-	67,-	70,-	74,-	99,-	107,-	103,-	107,-	107,-	112,-	116,-	129,-	119,-	137,-	150,-	158,-	165,-	172,-	222,-	232,-	242,-	252,-	272,-	289,-	237,-	262,-	243,-	279,-	307,-	322,-	337,-	351,-	
30	Ester Oil Charge BSE32	for HFC Refrigerants		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
31	Ester Oil Charge BSE55	for HFC Refrigerants and high Condensing Temperatures; tc > 70 °C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32	Oil Charge B5.2	"Y" Designation omitted		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33	Opto-electronic Oil Level Monitoring OLC-K1 (mounted)	230 V-1-50/60 Hz	286,-																																					
34			572,-																																					
35		115 V-1-50/60 Hz	286,-																																					
36			572,-																																					
37	Crankcase Heater	0 .. 60 W-100 .. 240 V, PTC	56,-	•	•	•	•	•	•	•	•																													
38		0 .. 60 W-400 V, PTC	56,-	•	•	•	•	•	•	•	•																													
39		0 .. 120 W-200 .. 260 V, PTC	68,-										•	•	•	•	•	•	•	•	•	•	•	•	•															
40		0 .. 120 W-100 .. 140 V, PTC	68,-										•	•	•	•	•	•	•	•	•	•	•	•	•	•														
41		0 .. 140 W-200 .. 260 V, PTC	68,-																								•	•	•	•	•	•								
42		0 .. 140 W-100 .. 140 V, PTC	68,-																								•	•	•	•	•	•								
43		0 .. 120 W-200 .. 260 V, PTC	136,-																									•	•	•	•	•								
44		0 .. 120 W-100 .. 140 V, PTC	136,-																									•	•	•	•	•								
45	Discharge Gas Temperature Sensor	PTC 140	138,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
46		(included in Item 47 .. 50)	276,-																																					
47	Start Unloader (SU) Cylinder Head with Control Valve PTC 140 included (45 .. 46) Check Valve required (21 .. 24)	Coil for 230 V-1-50/60 Hz	517,-																							•	•	•	•	•	•	•								
48			1.034,-																																					
49		Coil for 115 V-1-50/60 Hz	568,-																								•	•	•	•	•	•	•	•	•	•	•	•	•	•
50			1.136,-																																					
51	Capacity Control (CR II) Cylinder Head with Control Valve (1X) possible Residual Capacity: see KT-101	Coil for 230 V-1-50/60 Hz	340,-																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
52		Coil for 115 V-1-50/60 Hz	391,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
53	Oil Service Valve		73,-																							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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Item	Air-cooled Condensing Units - with ECOLINE Compressors - with 2-Stage Compressors		Series	ECOLINE						2-Stage						
			Type	LH135/4JE-15Y	LH135/4JE-22Y	LH135/4HE-18Y	LH135/4HE-25Y	LH135/4GE-23Y	LH135/6JE-25Y	LH135/6HE-28Y	LH104/S4T-5.2Y	LH104/S4N-8.2Y	LH124/S4G-12.2Y	LH135/S6I-16.2Y	LH135/S6H-20.2Y	LH135/S6G-25.2Y
			Price EUR	13.410,-	13.795,-	13.429,-	13.814,-	14.337,-	15.172,-	15.453,-	9.337,-	9.947,-	13.576,-	17.518,-	17.812,-	19.221,-
	Accessories <i>COMPRESSOR</i>	Additional Information														
16	Motor for Special Voltage	available Motors see KT-410		358,-	377,-	359,-	378,-	403,-	443,-	457,-	294,-	324,-	448,-	558,-	572,-	641,-
17	Ester Oil Charge BSE32	for HFC Refrigerants		S	S	S	S	S	S	S	S	S	S	S	S	S
18	Ester Oil Charge BSE55	for HFC Refrigerants and high Condensing Temperatures; tc > 70 °C		O	O	O	O	O	O	O	O	O	O	O	O	O
19	Oil Charge B5.2	"Y" Designation omitted		O	O	O	O	O	O	O	O	O	O	O	O	O
20	Oil Pressure Monitoring MP54 (mounted)	115/230 V-1-50/60 Hz	312,-	•	•	•	•	•	•	•	•	•	•	•	•	•
21	Oil Pressure Monitoring Delta P II (mounted)	115 .. 230 V-1-50/60 Hz	286,-	•	•	•	•	•	•	•	•	•	•	•	•	•
22	Crankcase Heater	140 W, 230 V	77,-	•	•	•	•	•	•	•	•	•	•	•	•	•
23		140 W, 115 V	77,-	•	•	•	•	•	•	•	•	•	•	•	•	•
24	Discharge Gas Temperature Sensor	PTC 140 (included in Item 25 .. 26)	138,-	•	•	•	•	•	•	•	•	•	•	•	•	•
25	Start Unloader (SU) Cylinder Head with Control Valve	Coil for 230 V-1-50/60 Hz	517,-	•	•	•	•	•	•	•						
26		Coil for 115 V-1-50/60 Hz	568,-	•	•	•	•	•	•	•						
27	Capacity Control (CR II) Cylinder Head with Control Valve (1X)	Coil for 230 V-1-50/60 Hz	340,-	•	•	•	•	•	•	•						
28		possible Residual Capacity: see KT-101	Coil for 115 V-1-50/60 Hz	391,-	•	•	•	•	•	•	•					
29	Oil Service Valve		73,-	•	•	•	•	•	•	•	•	•	•	•	•	•

Item	Air-cooled Condensing Units with ECOLINE Compressors - for High Ambient Temperatures		Series	LH - for High Ambient Temperatures																												
			Type	LH135/44DES-10Y	LH135/44EES-12Y	LH124/44EES-8Y	LH124/44FES-10Y	LH124/44FES-6Y	LH135/4NES-14Y	LH135/4PES-12Y	LH124/4TES-12Y	LH124/4TES-9Y	LH124/4CES-9Y	LH124/4CES-6Y	LH114/4DES-5Y	LH114/4DES-7Y	LH104/4EES-6Y	LH104/4EES-4Y	LH114/4FES-5Y	LH84/4FES-3Y	LH104/2CES-4Y	LH84/2CES-3Y	LH104/2DES-3Y	LH64/2DES-2Y	LH64/2EES-2Y	LH64/2FES-2Y	LH53/2GES-2Y	LH44/2HES-2Y	LH44/2HES-1Y	LH33/2IES-07Y	LH33/2KES-05Y	
			Price EUR	12.819,-	12.266,-	11.305,-	11.696,-	11.191,-	11.518,-	10.896,-	9.017,-	8.824,-	7.818,-	7.686,-	6.930,-	6.772,-	6.772,-	6.076,-	5.718,-	6.343,-	4.381,-	5.578,-	4.194,-	5.397,-	3.672,-	3.593,-	3.019,-	2.767,-	2.496,-	2.471,-	2.316,-	2.307,-
	Accessories <i>CONDENSING UNIT</i>	Additional Information																														
1	Fan for 3-Phase Supply	380..420 V-3-50 Hz // 440..480 V-3-60 Hz	67,-																													
163,-			•	•	•	•																										
135,-																																
4	Liquid Receiver with Larger Volume		94,-	•	•	•	•	•																								
244,-																																
6	Weather Protection Housing	packed separately	637,-	•	•	•	•	•																								
1.155,-																																
2.602,-																																
3.256,-																																
10	Condenser with Plastic Coated Fins	for improved Corrosion Protection	394,-	•	•	•	•	•	•	•																						
1.705,-																																
2.351,-																																
13	Accessory Pack	HP and LP Switches mounted; Wiring to Terminal Strip; Sight Glass; Filter Drier; Liquid Line to outer Unit Edge (up to LH84)	668,-	•	•	•	•	•	•	•	•	•	•		•																	
1.173,-																																
1.717,-																																
16	Electronic Speed Control Device for Condenser Fan	Please specify Pressure Range: 4.0 to 12.5 bar or 9.2 to 21.2 bar	493,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
986,-																																
18	High & Low Pressure Switch		336,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
672,-																																
697,-																																
21	Check Valve	in Discharge Line	231,-																													
552,-																																
462,-																																
1.104,-																																
25	Oil Separator	with Check Valve in Discharge Line	733,-	•	•	•	•	•	•	•	•	•	•	•																		
964,-																																
1.285,-																																
1.585,-																																

Item	Air-cooled Condensing Units with ECOLINE Compressors - for High Ambient Temperatures		Series	LH - for High Ambient Temperatures																												
			Type	LH135/44DES-10Y LH135/44EES-12Y LH124/44EES-8Y LH124/44FES-10Y LH124/44FES-6Y LH135/4NES-14Y LH135/4PES-12Y LH124/4TES-12Y LH124/4TES-9Y LH124/4CES-9Y LH124/4CES-6Y LH114/4DES-5Y LH114/4DES-7Y LH104/4EES-6Y LH104/4EES-4Y LH114/4FES-5Y LH84/4FES-3Y LH104/2CES-4Y LH84/2CES-3Y LH104/2DES-3Y LH64/2DES-2Y LH64/2EES-2Y LH64/2FES-2Y LH53/2GES-2Y LH44/2HES-2Y LH44/2HES-1Y LH33/2IES-07Y LH33/2KES-05Y																												
			Price EUR	2.307,-	2.316,-	2.471,-	2.496,-	2.767,-	3.019,-	3.593,-	3.672,-	5.397,-	4.194,-	5.578,-	4.381,-	6.343,-	5.718,-	6.076,-	6.772,-	6.930,-	7.686,-	7.818,-	8.824,-	9.017,-	10.896,-	11.518,-	11.191,-	11.696,-	11.305,-	12.268,-	12.819,-	
	Accessories <i>COMPRESSOR</i>	Additional Information																														
29	Motor for Special Voltage	available Motors see KT-410		65,-	65,-	66,-	67,-	67,-	70,-	99,-	103,-	107,-	107,-	112,-	116,-	129,-	119,-	137,-	150,-	158,-	165,-	172,-	222,-	232,-	242,-	272,-	262,-	243,-	279,-	307,-		
30	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		
31	Ester Oil Charge BSE55	for HFC Refrigerants and 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	
32	Oil Charge B5.2	"Y" 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	
33	Opto-electronic Oil Level Monitoring OLC-K1 (mounted)	230 V-1-50/60 Hz	286,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34		115 V-1-50/60 Hz	286,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
35		230 V-1-50/60 Hz	572,-																													
36		115 V-1-50/60 Hz	572,-																													
37	Crankcase Heater	0 .. 60 W-100 .. 240 V, PTC	56,-	•	•	•	•	•	•																							
38		0 .. 60 W-400 V, PTC	56,-	•	•	•	•	•	•																							
39		0 .. 120 W-200 .. 260 V, PTC	68,-								•	•	•	•	•	•	•	•	•	•	•	•										
40		0 .. 120 W-100 .. 140 V, PTC	68,-								•	•	•	•	•	•	•	•	•	•	•	•										
41		0 .. 140 W-200 .. 260 V, PTC	68,-																				•	•	•	•						
42		0 .. 140 W-100 .. 140 V, PTC	68,-																				•	•	•	•						
43		0 .. 120 W-200 .. 260 V, PTC	136,-																									•	•	•	•	•
44		0 .. 120 W-100 .. 140 V, PTC	136,-																									•	•	•	•	•
45	Discharge Gas Temperature Sensor	PTC 140	138,-													•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
46		(included in Item 47 .. 50)	276,-																									•	•	•	•	•
47	Start Unloader (SU) Cylinder Head with Control Valve PTC 140 included (45 .. 46) Check Valve required (21 .. 24)	Coil for 230 V-1-50/60 Hz	517,-																				•	•	•	•						
48			1.034,-																									•	•	•	•	•
49		Coil for 115 V-1-50/60 Hz	568,-																					•	•	•	•					
50			1.136,-																										•	•	•	•
51	Capacity Control (CR II) Cylinder Head with Control Valve (1X) possible Residual Capacity: see KT-101	Coil for 230 V-1-50/60 Hz	340,-													•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
52		Coil for 115 V-1-50/60 Hz	391,-														•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
53	Oil Service Valve		73,-																				•	•	•	•						

[illegible]



Item	Air-cooled Condensing Units without Compressor		Designation of corresponding Standard Unit <u>with</u> Compressor		Price EUR																
	Accessories	Additional Information	Type	Type		LH32/FS36	LH32/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36	LH33/FS36
1	Discharge Line	with Fixing Clamp	56,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2			122,-																		
3			289,-																		
4	Fixing Rails for Compressor Mounting (Kit)	32730122	72,-																		
5		32730124	72,-																		
6		32730110	72,-																		

[illegible]



Item	Water-cooled Condensing Units with ECOLINE Compressors		Series	Water-cooled																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Accessories <i>COMPRESSOR</i>		Additional Information		Series	Seawater-cooled																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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8	Motor for Special Voltage	available Motors see KT-410																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			



Water-cooled Condensing Units with ECOLINE and 2-stage Compressors	Series		Water-cooled															
	Type	Price EUR	Cu (kg)															
				K1353T/S66F-60Y	K1353T/S66G-50Y	K1353T/S66H-40Y	K1353T/S66J-32Y	K813H/S6F-30Y	K813H/S6G-25Y	K573H/S6H-20Y	K573H/S6I-16Y	K573H/S4G-12Y	K373H/S4N-8Y	K373H/S4T-5Y	K2923T/S66F-100Y	K1973T/S66F-88Y	K2923T/S66G-80Y	K1973T/S66G-68Y
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)		10.241,-	14.87	38.197,-	33.515,-	30.695,-	29.392,-	18.781,-	16.444,-	14.619,-	14.325,-	12.073,-	8.150,-	7.563,-	37.597,-	35.221,-	33.594,-	30.452,-
		10.627,-	14.87	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		10.262,-	14.87	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		11.063,-	18.93	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		11.171,-	14.87	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		12.027,-	14.87	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		12.728,-	18.93	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		13.814,-	18.93	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		14.672,-	29.99	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		14.115,-	18.93	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		16.103,-	34.7	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		17.310,-	29.99	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		18.358,-	34.7	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		20.915,-	34.7	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		22.511,-	34.7	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		23.070,-	34.7	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
on Request		24.768,-	34.7	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		26.103,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		27.682,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13
		29.843,-	50.13	34.7	34.7	34.7	34.7	18.93	18.93	14.87	14.87	14.87	10.18	10.18	73.26	50.13	73.26	50.13

Item	ECOSTAR Air-cooled Condensing Units with VARISPEED Compressors		Series	ECOSTAR						
			Type	LHV6/2DES-3.F1Y	LHV6/4FES-5.F1Y	LHV6/4EES-6.F1Y	LHV6/4DES-5.F1Y	LHV6/4DES-7.F3Y	LHV6/4CES-6.F1Y	LHV6/4CES-9.F3Y
			Price EUR	12.547,-	13.213,-	13.926,-	14.197,-	15.071,-	14.601,-	16.225,-
	Accessories	Additional Information								
1	Opto-electronic Oil Level Monitoring OLC-K1	230 V-1-50/60 Hz - mounted	286,-		•	•	•	•	•	•
2	Sound Jacket	only for AC (R134a) and medium Temperature Applications (R134a / R404A)	588,-		•	•	•	•	•	•
3	Adjustable Mounting Blocks		62,-	•	•	•	•	•	•	•
4	Transport Lugs		92,-	•	•	•	•	•	•	•
5	Temperature Sensor	for Cold Store Temperature	45,-	•	•	•	•	•	•	•
6		for Suction Gas Temperature	45,-	•	•	•	•	•	•	•
7	BEST Converter - for "BITZER Electronic Service Tool"	Interface Converter Device with Cable Kit; Part No. 34431401	643,-	•	•	•	•	•	•	•



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



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	BO56 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	Air-cooled Condensing Units Water-cooled Condensing Units		Product Series		
			Air-cooled	Water-cooled	Seawater-cooled
	Extent of Delivery		L05/OY .. L50/VY	K03N/IV .. K573H/VIIWY	K033NB/IV .. 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	5Gh.2Y	5Gg.2Y	5Gf.2Y	W2TA	W2NA	W4TA	W4PA	W4NA	W4HA	W4GA	W6HA	W6GA	W6FA					
				Price EUR		2.665,-	2.884,-	3.431,-	3.991,-	4.161,-	6.043,-	6.155,-	7.770,-	7.956,-	8.380,-	10.046,-	10.237,-	10.658,-	3.464,-	3.747,-	4.463,-	4.963,-	5.182,-	7.569,-	7.684,-	9.541,-	9.729,-	10.148,-	635,-				
Accessories		Additional Information																															
1	Coupling Housing for B3/B5 IEC Motors (Selection see KP-520)	GK2370	Motor Flange D250	418,-	●	●										●	●																
2		GK2380	Motor Flange D300	418,-	●	●											●	●															
3		GK4430	Motor Flange D300	418,-			●	●	●										●	●	●												
4		GK4440	Motor Flange D350	458,-			●	●	●										●	●	●												
5		GK6490	Motor Flange D350	553,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
6		GK6500	Motor Flange D400	553,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
7		GK6510	Motor Flange D450	835,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
8	Coupling (Selection see KT-620)	KK211	without Bore	313,-	●	●										●	●																
9		KK211	Bore for Shaft D28	313,-	●	●											●	●															
10		KK211	Bore for Shaft D38	313,-	●	●											●	●															
11		KK211	Bore for Shaft D42	313,-	●	●											●	●															
12		KK215	without Bore	313,-	●	●											●	●															
13		KK215	Bore for Shaft D38	313,-	●	●											●	●															
14		KK411	pilot-drilled	313,-			●	●	●										●	●	●												
15		KK411	Bore for Shaft D38	313,-			●	●	●										●	●	●												
16		KK411	Bore for Shaft D42	313,-			●	●	●										●	●	●												
17		KK415	pilot-drilled	313,-			●	●	●										●	●	●												
18		KK415	Bore for Shaft D38	313,-			●	●	●										●	●	●												
19		KK420	pilot-drilled	621,-			●	●	●										●	●	●												
20		KK420	Bore for Shaft D38	621,-			●	●	●										●	●	●												
21		KK420	Bore for Shaft D42	621,-			●	●	●										●	●	●												
22		KK420	Bore for Shaft D48	621,-			●	●	●										●	●	●												
23		KK425	pilot-drilled	621,-			●	●	●										●	●	●												
24		KK425	Bore for Shaft D42	621,-			●	●	●										●	●	●												
25		KK620	pilot-drilled	621,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
26		KK620	Bore for Shaft D42	621,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
27		KK620	Bore for Shaft D48	621,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
28		KK625	pilot-drilled	621,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
29		KK625	Bore for Shaft D42	621,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
30		KK625	Bore for Shaft D48	621,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
31		KK630	pilot-drilled	987,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
32		KK630	Bore for Shaft D55	987,-						●	●	●	●	●	●	●						●	●	●	●	●	●						
33		KK630	Bore for Shaft D60	987,-						●	●	●	●	●	●	●						●	●	●	●	●	●						



Item	Open Drive Reciprocating Compressors		Series	".2"-Series											NH ₃						0 .. VIIW						
				BO3	BO4		BO5		BO6		BOS6			BOA3	BOA4		BOA5	BOA6		0Y	IV	IIV	IIIV	IVY	VY	VIWY	VIIWY
				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	
	Accessories	Additional Information	Price EUR	2.665,-	2.884,-	3.431,-	3.991,-	4.161,-	6.043,-	6.155,-	7.770,-	7.956,-	8.380,-	10.046,-	10.237,-	10.658,-	3.464,-	3.747,-	4.463,-	4.963,-	5.182,-	7.569,-	7.684,-	9.541,-	9.729,-	10.148,-	4.710,-
34	Compressor Flywheel / Pulley		124,-	•	•												•	•									
35			169,-			•	•	•											•	•	•					S	S
36			252,-						•	•	•	•	•	•	•	•						•	•	•	•		S
37	Ester Oil Charge BSE32	for HFC Refrigerants	--	S	S	S	S	S	S	S	S	S	S	S	S	S										S	S
38	Ester Oil Charge BSE55	for HFC Refrigerants and high Condensing Temperatures; tc > 55 °C	--	O	O	O	O	O	O	O	O	O	O	O	O	O										O	O
39	Oil Charge KC68	for NH ₃	--														S	S	S	S	S	S	S	S	S		
40	Oil Charge B5.2	"Y" Designation omitted	--	O	O	O	O	O	O	O	O	O	O	O	O	O										O	O
41	Oil Pressure Monitoring MP54	115/230 V-1-50/60 Hz	237,-	•	•	•	•	•	•	•	•	•	•	•	•	•											
42	Oil Pressure Monitoring Delta P II	115 .. 230 V-1-50/60 Hz	215,-	•	•	•	•	•	•	•	•	•	•	•	•	•											
43	Oil Pressure Monitoring MP55A	115/230 V-1-50/60 Hz	784,-														•	•	•	•	•	•	•	•	•		
44	Crankcase Heater	Heater Sleeve (retrofitting of Heater for IIIV and IVY)	--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
45			114,-																								
46			24,-																								
47		70 W, 230 V	68,-	•	•												•	•									
48		70 W, 115 V	68,-	•	•												•	•									
49		70 W, 24 V	68,-	•	•												•	•									
50		70 W, 400 V	68,-	•	•												•	•									
51		100 W, 230 V	73,-			•	•	•											•	•	•						
52		100 W, 115 V	73,-			•	•	•											•	•	•						
53		100 W, 24 V	75,-			•	•	•											•	•	•						
54		100 W, 400 V	73,-			•	•	•											•	•	•						
55		140 W, 230 V	77,-						•	•	•	•	•	•	•	•					•	•	•	•	•		
56		140 W, 115 V	77,-						•	•	•	•	•	•	•	•					•	•	•	•	•		
57		140 W, 24 V	77,-						•	•	•	•	•	•	•	•					•	•	•	•	•		
58		140 W, 400 V	77,-						•	•	•	•	•	•	•	•					•	•	•	•	•		
59		70 W, 230 V, with Bore for Heater	161,-																								
60		70 W, 115 V, with Bore for Heater	161,-																								
61		70 W, 24 V, with Bore for Heater	161,-																								
62		70 W, 400 V, with Bore for Heater	161,-																								



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	2.665,-	2.884,-	3.431,-	3.991,-	4.161,-	6.043,-	6.155,-	7.770,-	7.956,-	8.380,-	10.046,-	10.237,-	10.658,-	3.464,-	3.747,-	4.463,-	4.963,-	5.182,-	7.569,-	7.684,-	9.541,-	9.729,-	10.148,-								
Accessories	Additional Information																																	
63	Additional Fan	for 230/400 V-3-50/60 Hz // 265/460 V-3-60 Hz	421,-	●	●	●	●	●	●	●	●																							
64	Discharge Gas Temperature Sensor and Control Module (included in Item 78 - 84)	SE-B2, 230 V-50/60 Hz	252,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
65		SE-B2, 115 V-50/60 Hz	252,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
66		SE-B2, 24 V-50/60 Hz	252,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
67		SE-B2, 42 V-50/60 Hz	252,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
68		SE-B2, 24 V-DC	252,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
69	Discharge Gas Temperature Sensor	PTC 140, without SE-B2 Device	138,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
70	Oil Service Valve	not with Item 73 .. 74	36,-						●	●	●	●	●	●	●	●					●	●	●	●										
71			73,-			●	●	●																										
72			297,-																●	●	●													
73	Oil & Gas Equalizing Fittings	not with Item 70 .. 72	63,-			●	●	●	●	●	●	●	●	●	●	●																		
74			128,-	●	●																													
75	Conversion Kit for Marine Application		405,-	●	●												●	●																
76			451,-			●	●	●											●	●	●													
77			169,-						●	●	●	●	●	●	●	●						●	●	●	●									
78	Start Unloader (SU) Cylinder Head with Control Valve PTC 140 and Control Module SE-B2 included (Item 64 - 68)	with Coil for 230 V-1-50/60 Hz	578,-	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●									
79		with Coil for 115 V-1-50/60 Hz	629,-	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●									
80		with Coil for 48 V-1-50/60 Hz	629,-	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●									
81		with Coil for 42 V-1-50/60 Hz	629,-	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●									
82		with Coil for 24 V-1-50/60 Hz	629,-	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●									
83		with Coil for 115 V-DC	629,-	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●									
84		with Coil for 48 V-DC	629,-	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●									
85		with Coil for 24 V-DC	629,-	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●									
86	Capacity Control (CR) Cylinder Head with Control Valve (1X)	with Coil for 230 V-1-50/60 Hz	340,-			●	●	●	●	●	●	●							●	●	●	●	●	●	●									
87		with Coil for 115 V-1-50/60 Hz	391,-			●	●	●	●	●	●	●							●	●	●	●	●	●	●									
88		with Coil for 48 V-1-50/60 Hz	391,-			●	●	●	●	●	●	●							●	●	●	●	●	●	●									
89		with Coil for 42 V-1-50/60 Hz	391,-			●	●	●	●	●	●	●							●	●	●	●	●	●	●									
90		with Coil for 24 V-1-50/60 Hz	391,-			●	●	●	●	●	●	●							●	●	●	●	●	●	●									
91	possible Residual Capacity see KT-100	with Coil for 115 V-DC	391,-			●	●	●	●	●	●	●							●	●	●	●	●	●	●									
92		with Coil for 48 V-DC	391,-			●	●	●	●	●	●	●							●	●	●	●	●	●	●									
93		with Coil for 24 V-DC	391,-			●	●	●	●	●	●	●							●	●	●	●	●	●	●									



Item	Open Drive Reciprocating Compressors		Series	".2"-Series												NH ₃								0 .. VIIW											
				BO3		BO4		BO5		BO6		BOS6		BOA3		BOA4		BOA5		BOA6															
				Type	2T.2V	2N.2V	4T.2V	4P.2V	4N.2V	4H.2V	4G.2V	6H.2V	6G.2V	6F.2V	56H.2V	56G.2V	56F.2V	W2TA	W2NA	W4TA	W4PA	W4NA	W4HA	W4GA	W6HA	W6GA	W6FA								
				Price EUR	2.665,-	2.884,-	3.431,-	3.991,-	4.161,-	6.043,-	6.155,-	7.770,-	7.956,-	8.380,-	10.046,-	10.237,-	10.658,-	3.464,-	3.747,-	4.463,-	4.963,-	5.182,-	7.569,-	7.684,-	9.541,-	9.729,-	10.148,-								
	Accessories	Additional Information																																	
94	Start Unloader (SU) Cylinder Head prepared	without Control Valve, without PTC Sensor, without Control Module	123,-	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●										
95	Capacity Control (CR) Cylinder Head (1X) prepared	without Control Valve	84,-			●	●	●	●	●	●						●	●	●	●	●	●	●	●											
96	Control Valve for Item 94, 95 (1X)	Coil for 230 V-1-50/60 Hz	256,-			●	●	●	●	●	●						●	●	●	●	●	●	●	●											
97		Coil for Special Voltage (see Item 87 .. 93)	307,-			●	●	●	●	●	●						●	●	●	●	●	●	●	●											
98	Check Valve for Start Unloader		154,-	●	●	●																													
99			368,-				●	●	●	●	●		●	●																					
100			573,-									●			●																				
101			658,-																																●
102	Water-cooled Cylinder Heads		82,-	●	●										S	S																			
103			163,-			●	●	●	●	●								S	S	S	S	S													
104			245,-								●	●	●										S	S	S										
105	Water-cooled Cylinder Heads - for Seawater	coated Cylinder Heads	194,-	●	●																														
106			387,-			●	●	●	●	●																									
107			581,-								●	●	●																						
108			112,-													●	●																●	●	
109			224,-																●	●	●	●	●												
110			336,-																				●	●	●										
111	Liquid Subcooler - assembled	Liquid Subcooler, Liquid Injection Valve sized for Operation with Subcooler; complete with Piping; Components assembled and insulated	1.490,-										●	●	●																				
112	Liquid Subcooler - enclosed	Liquid Subcooler, Liquid Injection Valve sized for Operation with Subcooler; (Piping Elements and Insulation not included, Kit not assembled)	587,-										●	●	●																				

Item	Air-cooled and Water-cooled Condensing Units with 0 .. VIIW Compressor Series		Series	Air-cooled							Water-cooled				Seawater-cooled				
			Type	L05/0Y	L10/IV	L20/IIY	L30/IIY	L30/IIIV	L40/IIIV	L40/IVY	L50/IVY	L50/IVY	K033N/IIY	K073H/IIIV	K123H/IVY	K203H/IVY	K373H/VIIWY	K573H/VIIWY	
			Price EUR	1.152,-	1.174,-	1.490,-	1.630,-	1.738,-	2.230,-	2.570,-	3.087,-	3.799,-	1.584,-	1.909,-	2.686,-	4.221,-	6.325,-	9.116,-	10.162,-
	Accessories	Additional Information																	
113	Motor Pulley and V-Belt	required Ordering Information: outer Diameter and Diameter of Motor Shaft Bore	70,-	•	•	•	•	•					•	•			•		
114			138,-						•	•	•	•			•		•		
115			271,-													•	•	•	
116	Oil Separator	with Check Valve in Discharge Line	964,-												•				
117			1.285,-													•	•	•	



Item	Compact Screw Compressor CS Series		CSH							CSW							CSVH	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
	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	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	
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	
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	
7	Oil Management	integrated	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
8		integrated; with accessible Filter																	S	
9	Oil Charge	BSE170 (Ester Oil)	S		S		S		S										S	
10		BSE170L (Ester Oil)									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	
13	Motor Protection Device	SE-E1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		for 115/230 V-1-50/60 Hz
14	Oil Heater	200 W	S	S	S	S					S	S	S	S					S	
15		300 W					S	S	S	S					S	S	S	S		
16	Minimum Oil Level Control OLC-D1-S	opto-electronic Oil Level Monitoring																	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	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	
19	Pressure Relief Valve(s)		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
20	Check Valve		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	
22	Oil Temperature Sensor	PTC 120	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
23		NTC																	S	

[illegible]



Item	Semi-Hermetic CSH Compact Screw Compressors		Series	CSH65						CSH75						CSH85						CSH95																						
			Type	CSH6553-35Y	CSH6553-50(Y)	CSH6563-40Y	CSH6563-60(Y)	CSH6583-50Y	CSH6593-60Y	CSH7553-50Y	CSH7553-70(Y)	CSH7563-60Y	CSH7563-80(Y)	CSH7573-70Y	CSH7573-90(Y)	CSH7583-80Y	CSH7583-100(Y)	CSH7593-90Y	CSH7593-110(Y)	CSH8553-80Y	CSH8553-110(Y)	CSH8563-90Y	CSH8563-125(Y)	CSH8573-110Y	CSH8573-140(Y)	CSH8583-125Y	CSH8583-160(Y)	CSH8593-140Y	CSH8593-180(Y)	CSH9553-180(Y)	CSH9563-160Y	CSH9563-210(Y)	CSH9573-180Y	CSH9573-240(Y)	CSH9583-210Y	CSH9583-280(Y)	CSH9593-240Y	CSH9593-300(Y)	CSH95103-280Y	CSH95103-320(Y)	CSH95113-320Y			
	Accessories	Additional Information	Price EUR																																									
20	Opto-electronic Oil Level Monitoring OLC-D1-S (1X = min./ 2X = min. and max. Oil Level Monitoring)	230 V-1-50/60 Hz	276,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
21		115 V-1-50/60 Hz	276,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
22		24 V-AC/DC	276,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
23	OLC-D1-S prepared	Glass Cone Unit mounted, without Control Module	69,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
24	Adapter & Shut-off Valve for Economiser Connection		222,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
25			228,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
26			261,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
27	Adapter & Shut-off Valve for Liquid Injection		79,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
28	Adapter for External Oil Cooler (with Control Valve)	230 V-1-50 Hz	1.166,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
29			1.245,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
30		120 V-1-60 Hz	1.166,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
31			1.245,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
32		230 V-1-60 Hz	1.166,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33			1.245,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34	Vibration Dampers		68,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
35			155,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
36			204,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
37	Heating Device for Terminal Box	115 V / 30 W	187,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
38		230 V / 30 W	187,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
39	Muffler for Discharge Line	SD42	181,-	•	•	•	•																																					
40		SD54	257,-					•	•	•	•	•	•	•	•	•	•	•	•																									
41		SD67	470,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
42		SD80	470,-																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

[illegible]



Item	Semi-Hermetic CSW Compact Screw Compressors	Series	CSW65				CSW75				CSW85				CSW95																				
			Type	Price EUR	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)	CSW9563-140Y	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)				
	Accessories	Additional Information			14.123,-	14.406,-	14.617,-	14.908,-	17.578,-	17.929,-	18.352,-	18.719,-	19.169,-	19.554,-	26.027,-	26.549,-	26.412,-	26.941,-	27.480,-	28.030,-	34.879,-	35.576,-	38.503,-	39.273,-	41.595,-	42.427,-	43.177,-	44.041,-	46.708,-	47.642,-	49.106,-	50.087,-			
1	Motor for Special Voltage	available Motors see ST-410			706,-	720,-	731,-	745,-	878,-	896,-	917,-	936,-	958,-	978,-	1.301,-	1.327,-	1.321,-	1.347,-	1.374,-	1.402,-	1.745,-	1.779,-	1.925,-	1.964,-	2.080,-	2.121,-	2.159,-	2.202,-	2.336,-	2.382,-	2.455,-	2.504,-			
2	Ester Oil Charge BSE170L		--		S	S			S		S		S																						
3			--																																
4			--																																
5			--																																
6			--																																
7	Ester Oil Charge BSE170		286,-		●		●																												
8			360,-						●		●		●		●																				
9			527,-														●		●		●														
10			764,-																				●		●		●		●						
11			815,-																																
12	Ester Oil Charge B320SH		--		S		S		S		S		S		S		S		S		S		S		S		S		S		S		S		
13	Bridges for Direct On Line Start		26,-		●	●	●	●	●	●	●	●	●	●																					
14			36,-													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
15	Protection Device SE-E1	115/230 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	S	S	
16		24 V-1-50/60 Hz	--		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
17	Protection Device SE-E2	24V .. 230 V-1-50/60 Hz, Functions like SE-E1, suitable for Frequency Inverter Operation (SE-E1 omitted)	184,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
18	Protection Device SE-C1	24V .. 230 V-1-50/60 Hz, enhanced Protection Functions (SE-E1 omitted)	345,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
19	Special Voltage 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	S	S		
20		115 V-1-60 Hz, 4X	204,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
21		24 V-1-50/60 Hz, 4X	204,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
22		24 V-DC, 4X	204,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
23		115 V-DC, 4X	204,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
24		48 V-DC, 4X	204,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

[illegible]



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)	CSW9563-140Y	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	14.123,-	14.406,-	14.908,-	17.578,-	17.929,-	18.352,-	18.719,-	19.169,-	19.554,-	26.027,-	26.549,-	26.412,-	26.941,-	27.480,-	28.030,-	34.879,-	35.576,-	38.503,-	39.273,-	41.595,-	42.427,-	43.177,-	44.041,-	46.708,-	47.642,-	49.106,-	50.087,-
Accessories		Additional Information																													
41	Suction Line Bushing	D64L-2 5/8"	--	S	S	S	S																								
42		D76L-3 1/8"	--					S	S	S	S	S	S																		
43		D89L-3 1/2"	50,-											●	●	●	●	●	●												
44		D105L-4 1/8"	--											S	S	S	S	S	S	S	S										
45		D108L-4 1/4"	50,-											●	●	●	●	●	●	●	●										
46		DN125	--																				S	S	S	S	S	S	S	S	S
47		D134L	50,-																				●	●	●	●	●	●	●	●	●
48	Suction Shut-off Valve	D64L-2 5/8" (DN50)	142,-	●	●	●	●																								
49		D76L-3 1/8" (DN80)	340,-					●	●	●	●	●	●																		
50		D89L-3 1/2" (DN100)	851,-											●	●	●	●	●	●	●	●										
51		D105L-4 1/8" (DN100)	851,-											●	●	●	●	●	●	●	●										
52		D108L-4 1/4" (DN100)	851,-											●	●	●	●	●	●	●	●										
53		DN125 (DN125)	1.489,-																				●	●	●	●	●	●	●	●	●
54		D134L (DN125)	1.489,-																				●	●	●	●	●	●	●	●	●
55	Discharge Line Bushing	D54L-2 1/8"	50,-	S	S	S	S	●	●	●	●	●	●																		
56		D64L-2 5/8"	50,-					S	S	S	S	S	S	●	●	●	●	●	●												
57		D76L-3 1/8"	--											S	S	S	S	S	S												
58		D89L-3 1/2"	50,-																	●	●	●	●	●	●	●	●	●	●	●	●
59		D105L-4 1/8"	--																	S	S	S	S	S	S	S	S	S	S	S	
60		D108L-4 1/4"	50,-																	●	●	●	●	●	●	●	●	●	●	●	●
61	Discharge Shut-off Valve	D54L-2 1/8" (DN50)	142,-	●	●	●	●	●	●	●	●	●	●																		
62		D64L-2 5/8" (DN50)	142,-					●	●	●	●	●	●																		
63		D64L-2 5/8" (DN80)	340,-											●	●	●	●	●	●												
64		D76L-3 1/8" (DN80)	340,-											●	●	●	●	●	●												
65		D89L-3 1/2" (DN100)	851,-																	●	●	●	●	●	●	●	●	●	●	●	●
66		D105L-4 1/8" (DN100)	851,-																	●	●	●	●	●	●	●	●	●	●	●	●
67		D108L-4 1/4" (DN100)	851,-																				●	●	●	●	●	●	●	●	●

Item	Semi-Hermetic CSVH Compact Screw Compressors with integrated Frequency Inverter		Series	CSVH		
			Type	CSVH24-125Y	CSVH25-160Y	CSVH26-200Y
			Price EUR	41.874,-	45.642,-	49.169,-
	Accessories	Additional Information				
1	Network Choke	212-182-KS	1.093,-	●		
2		212-230-KS	1.383,-	●	●	
3		212-280-KS	1.502,-	●	●	●
4		212-330-KS	1.807,-		●	●
5		212-400-S	2.753,-			●
6	RFI Filter	3258-180-40	1.867,-	●		
7		3359-250-28	1.982,-	●	●	●
8		3359-320-99	2.195,-		●	●
9		3359-400-99	3.657,-		●	●
10	Suction Line Bushing	D105L-4 1/8"	--	S	S	S
11		D108L-4 1/4"	50,-	●	●	●
12	Suction Shut-off Valve	D105L-4 1/8"	851,-	●	●	●
13		D108L-4 1/4"	851,-	●	●	●
14	Discharge Shut-off Valve	D64L -2 5/8"	340,-	●	●	●
15		D76L-3 1/8"	340,-	●	●	●
16	Adapter & Shut-off Valve for Economiser Connection		228,-	●	●	●
17	Opto-electronic Oil Level Monitoring OLC-D1-S (Maximum Oil Level Monitoring)	24 V-AC/DC	276,-	●	●	●
18	Adapter for external Oil Cooler	D22-7/8"	37,-	●	●	●
19	Muffler for Discharge Line	SD80	470,-	●	●	●
20	Vibration Dampers		155,-	●	●	●
21	BEST Converter - for "BITZER Electronic Service Tool"	Interface Converter Device with Cable Kit; Part No. 34431401	643,-	●	●	●



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	115/230 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	

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Item	Semi-Hermetic HSK / HSN Screw Compressors		Series	HSK / HSN																																	
			Type	HSK5343-30	HSN5343-20	HSK5353-35	HSN5353-25	HSK5363-40	HSN5363-30	HSK6451-40	HSK6451-50	HSN6451-40	HSK6461-40	HSK6461-60	HSN6461-50	HSK7451-50	HSN7451-70	HSK7451-60	HSN7451-60	HSK7461-80	HSN7461-70	HSK7471-70	HSN7471-90	HSK8551-80	HSN8551-110	HSK8561-90	HSN8561-125	HSK8571-140	HSN8571-125	HSK8581-125	HSN8581-160	HSK8591-140	HSN8591-180	HSK8591-160			
			Price EUR	8.782,-	8.544,-	8.782,-							12.381,-	12.627,-	12.279,-	13.221,-	13.559,-	13.211,-	13.825,-	14.468,-	13.771,-	14.662,-	15.311,-	14.468,-	16.897,-	17.640,-	16.675,-	20.985,-	21.927,-	22.276,-	23.111,-	24.726,-	25.923,-	24.572,-	25.371,-	26.310,-	26.580,-
Accessories		Additional Information																																			
29	Oil Flow Control OFC	230 V-1-50/60 Hz, SE-B2 omitted	189,-	•	•	•	•	•	•																												
30		115 V-1-50/60 Hz, SE-B2 omitted	189,-	•	•	•	•	•	•																												
31		24 V-1-50/60 Hz, SE-B2 omitted	189,-	•	•	•	•	•	•	•																											
32		24 V-DC, SE-B2 omitted	189,-	•	•	•	•	•	•	•																											
33	Adapter and Shut-off Valve for Economiser Connection	--	222,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
34		with ECO Suction Line	320,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
35	Adapter for Liquid Injection		40,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
36		with Integral Nozzle	237,-																						•	•	•	•	•	•							
37	Shut-off Valve for Oil Injection		68,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
38	Vibration Dampers		--	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S														
39			155,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
40	Heating Device for Terminal Box	115 V / 30 W	187,-							•	•	•	•	•	•	•	•	•	•	•	•	•	•														
41		230 V / 30 W	187,-							•	•	•	•	•	•	•	•	•	•	•	•	•	•														
42	Suction Line Bushing	D54L-2 1/8"	--	○	○	○	○	○	○	○	○	○	○	○																							
43		D76L-3 1/8"	50,-														○	○	○	○	○	○	○		•	•	•	•	•	•	•	•	•	•	•	•	
44		D89L-3 1/2"	50,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
45		D105L-4 1/8"	--																						•	•	•	•	•	•	•	•	•	•	•	•	•
46		D108L-4 1/4"	50,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
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"	851,-													S	S	S	S	S	S	S	S		•	•	•	•	•	•	•	•	•	•	•	•	
49		D89L-3 1/2"	851,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
50		D105L-4 1/8"	851,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
51		D108L-4 1/4"	851,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
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"	50,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
55		D76L-3 1/8"	--																						S	S	S	S	S	S	S	S	S	S	S	S	S
56	Discharge Shut-off Valve	D42L-1 5/8"	87,-	•	•	•	•	•	•	•	•	•	•	•	•																						
57		D54L-2 1/8"	142,-													•	•	•	•	•	•	•	•														
58		D64L -2 5/8"	340,-																						•	•	•	•	•	•	•	•	•	•	•	•	•
59		D76L-3 1/8"	340,-																							•	•	•	•	•	•	•	•	•	•	•	•



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	
9		internal System			S				integrated Oil Management, accessible Filter, 2X SE-B2, Electrolytic Capacitor, Sight Glass
10									S
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	25.852,-	25.852,-	23.525,-	21.371,-	21.371,-	19.645,-	19.003,-	12.581,-	12.581,-	--	--	11.437,-	11.437,-	--	--	11.100,-	11.100,-	--	10.702,-	10.702,-	10.702,-	6.992,-	6.992,-	6.615,-	6.615,-	6.239,-	6.239,-
			Series	OSKA / OSNA - NH ₃																										
			Type	OSN8591	OSK8591	OSK8581	OSN8571	OSK8571	OSK8561	OSK8551	OSN7472	OSK7472	OSHA7472	OSN7462	OSK7462	OSHA7462	OSN7452	OSK7452	OSHA7452	--	--	--	OSN5361	OSKA5361	OSNA5351	OSKA5351	OSNA5341	OSKA5341		
Price EUR	26.814,-	26.814,-	24.488,-	22.333,-	22.333,-	20.608,-	19.967,-	14.172,-	14.172,-	14.172,-	13.030,-	13.030,-	13.030,-	13.030,-	12.642,-	12.642,-	12.642,-	--	--	--	8.426,-	8.426,-	7.942,-	7.942,-	7.484,-	7.484,-	7.484,-			
Accessories	Additional Information																													
1	Coupling Housing (for B3/B5 IEC Motors. Selection see SH-500 and SH-510)	GS5070 // Motor Flange D350	458,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
2		GS5080 // Motor Flange D400	458,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
3		GS7090 // Motor Flange D400	735,-																											
4		GS7100 // Motor Flange D450	735,-																											
5		GS7110 // Motor Flange D450	830,-																											
6		GS7120 // Motor Flange D550	830,-																											
7		GS7140 // Motor Flange D600	968,-																											
8	Couplings (Selection see SH-500 and SH-510)	KS620 // pilot-drilled	626,-	●	●	●	●	●	●																					
9		KS620 // Shaft Bore D42	626,-	●	●	●	●	●	●																					
10		KS620 // Shaft Bore D48	626,-	●	●	●	●	●	●																					
11		KS620 // Shaft Bore D55	626,-	●	●	●	●	●	●																					
12		KS620 // Shaft Bore D60	626,-	●	●	●	●	●	●																					
13		KS720 // pilot-drilled	626,-																											
14		KS720 // Shaft Bore D48	626,-																											
15		KS720 // Shaft Bore D55	626,-																											
16		KS720 // Shaft Bore D60	626,-																											
17		KS730 // pilot-drilled	1.001,-																											
18		KS730 // Shaft Bore D55	1.001,-																											
19		KS730 // Shaft Bore D60	1.001,-																											
20		KS730 // Shaft Bore D65	1.001,-																											
21		KS800 // pilot-drilled	1.001,-																											
22		KS800 // Shaft Bore D55	1.001,-																											
23		KS800 // Shaft Bore D65	1.001,-																											
24		KS800 // Shaft Bore D60	1.001,-																											
25		KS800 // Shaft Bore D70	1.001,-																											



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	OSK8561	OSN8561	OSK8571	OSN8571	OSK8581	OSN8581	OSK8591	OSN8591		
			Price EUR	6.239,-	6.239,-	6.615,-	6.615,-	6.992,-	6.992,-	10.702,-	10.702,-	--	--	11.100,-	11.100,-	11.437,-	11.437,-	12.581,-	12.581,-	19.003,-	19.003,-	19.645,-	19.645,-	21.371,-	21.371,-	23.525,-	23.525,-	25.852,-	25.852,-
			Series	OSKA / OSNA - NH ₃																									
			Type	OSKA5341	OSNA5341	OSKA5351	OSNA5351	OSKA5361	OSNA5361	--	--	OSHA7452	OSKA7452	OSNA7452	OSHA7462	OSKA7462	OSNA7462	OSHA7472	OSKA7472	OSNA7472	OSKA8551	OSNA8551	OSKA8561	OSNA8561	OSKA8571	OSNA8571	OSKA8581	OSNA8581	OSKA8591
Price EUR	7.484,-	7.484,-	7.942,-	7.942,-	8.426,-	8.426,-	--	--	12.642,-	12.642,-	12.642,-	13.030,-	13.030,-	13.030,-	14.172,-	14.172,-	14.172,-	19.967,-	19.967,-	20.608,-	20.608,-	22.333,-	22.333,-	24.488,-	24.488,-	26.814,-	26.814,-		
Accessories		Additional Information																											
26	Oil Flow Control OFC	230 V-1-50/60 Hz		271,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
27		115 V-1-50/60 Hz		271,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
28		24 V-1-50/60 Hz		271,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
29		24 V-DC		271,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
30	Capacity Control / Start Unloader	1 Stage (Coil for 230 V-1-50 Hz)		674,-	•	•	•	•	•	•	S	S																	
31		2 Stages (Coil for 230 V-1-50 Hz)		--								S	S	S	S	S	S	S											
32		Slider System (230 V-1-50/60 Hz)		--															S	S	S	S	S	S	S	S	S		
33	Coil(s) for Capacity Control / Start Unloader	230 V-1-60 Hz, 1X		51,-	•	•	•	•	•	•	•	•																	
34		115 V-1-60 Hz, 1X		51,-	•	•	•	•	•	•	•	•																	
35		115 V-DC, 1X		51,-	•	•	•	•	•	•	•	•																	
36		48 V-DC, 1X		51,-	•	•	•	•	•	•	•	•																	
37		24 V-1-50 Hz, 1X		51,-	•	•	•	•	•	•	•	•																	
38		24 V-DC, 1X		51,-	•	•	•	•	•	•	•	•																	
39		230 V-1-50 Hz, 2X		--									S	S	S	S	S	S	S										
40		230 V-1-60 Hz, 2X		102,-									•	•	•	•	•	•	•	•									
41		115 V-1-60 Hz, 2X		102,-									•	•	•	•	•	•	•	•									
42		115 V-DC, 2X		102,-									•	•	•	•	•	•	•	•									
43		48 V-DC, 2X		102,-									•	•	•	•	•	•	•	•									
44		24 V-1-50 Hz, 2X		102,-									•	•	•	•	•	•	•	•									
45		24 V-DC, 2X		102,-									•	•	•	•	•	•	•	•									
46		230 V-1-50/60 Hz, 4X		--																S	S	S	S	S	S	S	S		
47		115 V-1-60 Hz, 4X		204,-																•	•	•	•	•	•	•	•		
48		24 V-1-50/60 Hz, 4X		204,-																•	•	•	•	•	•	•	•		
49	24 V-DC, 4X		204,-																•	•	•	•	•	•	•	•			
50	115 V-DC, 4X		204,-																•	•	•	•	•	•	•	•			
51	48 V-DC, 4X		204,-																•	•	•	•	•	•	•	•			
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											
53		230 V-1-60 Hz		51,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•										
54		115 V-1-60 Hz		51,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•										
55		115 V-DC		51,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•										
56		48 V-DC		51,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•										
57		24 V-1-50 Hz		51,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•										
58		24 V-DC		51,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•										

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	OSN8551	OSK8571	OSN8571	OSK8581	OSN8581	OSK8591	OSN8591
			Price EUR	6.239,-	6.239,-	6.615,-	6.615,-	6.992,-	6.992,-	10.702,-	10.702,-	--	11.100,-	11.100,-	--	11.437,-	11.437,-	--	12.581,-	12.581,-	19.003,-	19.645,-	21.371,-	21.371,-	23.525,-	23.525,-	25.852,-	25.852,-
Accessories		Additional Information																										
59	Adapter and Shut-off Valve for Economiser Connection		222,-	●	●	●	●	●	●	●	●	●		●	●			●	●									
60			228,-																		●	●	●	●	●	●	●	●
61	Shut-off Valve for Oil Injection		68,-																	●	●	●	●	●	●	●	●	●
62	Adapter with Nozzle for Liquid Injection		237,-																	●	●	●		●	●			
63	Suction Line Bushing	D54L-2 1/8"	--	○	○	○	○	○	○																			
64		D76L-3 1/8"	50,-								○	○		○	○		○	○		○	○	●	●	●	●	●	●	●
65		D89L-3 1/2"	50,-																		●	●	●	●	●	●	●	●
66		D105L-4 1/8"	--																		S	S	S	S	S	S	S	S
67		D108L-4 1/4"	50,-																		●	●	●	●	●	●	●	●
68	Suction Shut-off Valve	D54L-2 1/8"	--	S	S	S	S	S	S																			
69		D76L-3 1/8"	851,-								S	S		S	S		S	S		S	S	●	●	●	●	●	●	●
70		D89L-3 1/2"	851,-																		●	●	●	●	●	●	●	●
71		D105L-4 1/8"	851,-																		●	●	●	●	●	●	●	●
72		D108L-4 1/4"	851,-																		●	●	●	●	●	●	●	●
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"	50,-																		●	●	●	●	●	●	●	●
76		D76L-3 1/8"	--																		S	S	S	S	S	S	S	S
77	Discharge Shut-off Valve	D35L-1 3/4"	87,-	●	●	●	●	●	●																			
78		D54L-2 1/8"	142,-								●	●		●	●		●	●		●	●							
79		D64L -2 5/8"	340,-																		●	●	●	●	●	●	●	●
80		D76L-3 1/8"	340,-																		●	●	●	●	●	●	●	●



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
			Price EUR	7.484,-	7.484,-	7.942,-	7.942,-	8.426,-	8.426,-	--	--	12.642,-	12.642,-	12.642,-	13.030,-	13.030,-	13.030,-	14.172,-	14.172,-
Accessories		Additional Information																	
81	Adapter and Shut-off Valve for Economiser Connection		422,-	•	•	•	•	•	•			•	•	•	•	•	•	•	•
82			280,-														•	•	•
83	Shut-off Valve for Oil Injection		--														S	S	S
84	Suction Line Bushing	DN50-D54L	50,-	•	•	•	•	•	•										
85		DN80-D76L	50,-									•	•	•	•	•	•	•	•
86		DN100-D89L	50,-														•	•	•
87		DN100-D105L	--														S	S	S
88		DN100-D108L	50,-														•	•	•
89	Suction Shut-off Valve	DN50-D54L NH ₃	--	S	S	S	S	S	S										
90		DN80-D76L NH ₃	--									S	S	S	S	S	S	S	S
91		DN100-D89L NH ₃	915,-														•	•	•
92		DN100-D105L NH ₃	915,-														•	•	•
93		DN100-D108L NH ₃	915,-														•	•	•
94	Discharge Line Bushing	DN40-D42L	--	S	S	S	S	S	S										
95		DN50-D54L	--									S	S	S	S	S	S	S	S
96		DN65-D64L	50,-														•	•	•
97		DN80-D76L	--														S	S	S
98	Discharge Shut-off Valve	DN32-1 3/4"	136,-	•	•	•	•	•	•										
99		DN50-D54L	196,-									•	•	•	•	•	•	•	•
100		DN80-D76L	422,-														•	•	•



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



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	S	
5	Connection for Oil Injection	Rotalock Connection	S	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 115/230 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	S	
18	Check Valve		S	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	S	

Item	Semi-Hermetic and Open Drive Screw Compressors for Booster Applications	Series	HSKB										OSKB							OSKAB - NH ₃											
		Type	HSKB5343-15	HSKB5353-20	HSKB5363-25	HSKB6451-40	HSKB6461-40	HSKB7451-40	HSKB7461-40	HSKB7471-50	HSKB8551-60	HSKB8561-70	HSKB8571-80	OSKB5341	OSKB5351	OSKB5361	OSKB7451	OSKB7461	OSKB7471	OSKB8551	OSKB8561	OSKB8571	OSKAB5341	OSKAB5351	OSKAB5361	OSKAB7452	OSKAB7462	OSKAB7472	OSKAB8551	OSKAB8561	OSKAB8571
		Price EUR	9.141,-	9.141,-	9.659,-	12.813,-	13.653,-	14.366,-	15.203,-	17.437,-	21.706,-	22.997,-	25.446,-	6.613,-	6.708,-	7.083,-	11.749,-	12.085,-	13.229,-	19.904,-	20.545,-	22.272,-	7.951,-	8.447,-	8.894,-	13.291,-	13.679,-	14.821,-	20.867,-	21.509,-	23.234,-
	Accessories	Additional Information																													
1	Motor for Special Voltage	available Motors see ST-410	457,-	457,-	483,-	641,-	683,-	718,-	760,-	872,-	1.085,-	1.150,-	1.272,-																		
2	Protection Device SE-E1	115/230 V-1-50/60 Hz	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																		
4	Protection Device SE-E2	24 V .. 230 V-1-50/60 Hz, Functions like SE-E1, suitable for Frequency Inverter Operation (SE-E1 omitted)	184,-	●	●	●	●	●	●	●	●	●	●																		
5	Protection Device SE-C1	24 V .. 230 V-1-50/60 Hz, enhanced Protection Functions (SE-E1 and SE-B2 omitted)	297,-				●	●	●	●	●																				
6	Protection Device SE-C2		297,-										●	●	●																
7	Oil Flow Control OFC	230 V-1-50/60 Hz	189,-	●	●	●																									
8	(SE-B2 omitted)	115 V-1-50/60 Hz	189,-	●	●	●																									
9	Oil Flow Control OFC (incl. SE-B2 for Discharge Gas Temperature Monitoring)	230 V-1-50/60 Hz	271,-											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
10		115 V-1-50/60 Hz	271,-												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
11	Bridges for Direct On Line Start		26,-	●	●	●	●	●	●	●																					
12			36,-										●	●	●																
13	Capacity Control / Start Unloader	1 Regulating Stage (230 V-1-50 Hz)	674,-											●	●	●								●	●	●					
14		2 Regulating Stages (230 V-1-50 Hz)	--	S	S	S	S	S	S	S								S	S	S						S	S	S			
15		Slider System (230 V-1-50/60 Hz)	--										S	S	S					S	S	S							S	S	S
16	Coil(s) for Capacity Control / Start Unloader	115 V-1-60 Hz, 1X	51,-											●	●	●								●	●	●					
17		115 V-1-60 Hz, 2X	102,-	●	●	●	●	●	●	●								●	●	●						●	●	●			
18		115 V-1-60 Hz, 4X	204,-										●	●	●					●	●	●							●	●	●
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			
20		115 V-1-60 Hz	51,-	●	●	●	●	●	●	●					●	●	●	●	●	●				●	●	●	●	●			
21	Shut-off Valve for Oil Injection		68,-									●	●	●					S	S	S							S	S	S	
22	Vibration Dampers		155,-	S	S	S	S	S	S	S		●	●	●																	
23	Heating Device for Terminal Box	115 V / 30 W	187,-				●	●	●	●	●																				
24		230 V / 30 W	187,-				●	●	●	●	●																				



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	OSK7471EX	OSN7471EX	OSK7471EX	OSN7471EX	OSK7471EX	OSN7471EX
			Price EUR	16.538,-	16.538,-	16.937,-	16.937,-	17.274,-	17.274,-	18.416,-	18.416,-	18.479,-	18.479,-	18.867,-	18.867,-	20.009,-	20.009,-
	Accessories	Additional Information															
1		GS7090 // Motor Flange D400	735,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2	Coupling Housing	GS7100 // Motor Flange D450	735,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3	(for B3/B5 IEC Motors. Selection see SH-500 and SH-510)	GS7110 // Motor Flange D450	830,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4		GS7120 // Motor Flange D550	830,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5		GS7140 // Motor Flange D600	968,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6	Couplings EX Version (Selection see SH-500 and SH-510)	KS720EX // Shaft Bore D48	703,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7		KS720EX // Shaft Bore D55	703,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8		KS720EX // Shaft Bore D60	703,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9		KS730EX // Shaft Bore D55	1.119,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10		KS730EX // Shaft Bore D60	1.119,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
11		KS730EX // Shaft Bore D65	1.119,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O
14		24 V-1-50/60 Hz	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O
15		24 V-DC	--	O	O	O	O	O	O	O	O	O	O	O	O	O	O
16	Coil(s) EX Version for Capacity Control / Start Unloader	230 V-1-50/60 Hz, 1X	3.813,-	•	•												
17		115 V-1-50/60 Hz, 1X	3.813,-	•	•												
18		24 V AC/DC, 1X	3.813,-	•	•												
19		230 V-1-50/60 Hz, 2X	7.627,-			•	•	•	•	•	•	•	•	•	•	•	•
20		115 V-1-50/60 Hz, 2X	7.627,-			•	•	•	•	•	•	•	•	•	•	•	•
21		24 V AC/DC, 2X	7.627,-			•	•	•	•	•	•	•	•	•	•	•	•
22	Special Voltage Coil EX Version for Oil Solenoid Valve	230 V-1-50/60 Hz, 1X	2.904,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
23		115 V-1-50/60 Hz, 1X	2.904,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
24		24 V AC/DC, 1X	2.904,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25	Adapter and Shut-off Valve for Economiser Connection		222,-	•	•	•	•	•	•	•	•	•	•	•	•	•	•



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 (with integrated Coalescence 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	with Brazing Bushing
2	Outlet Connection	Pipe Connection (Rotalock or Flange)	S	S	S	S	S	with Brazing Bushing
3	Connection for Pressure Relief Valve	1 1/4" - 12 UNF External 3/8" - 18 NPTF Internal	S	S	S	S	S	
4	Sight Glass	1X	S	S	S	S	S	
5	Minimum Oil Level Control OLC-D1-D	opto-electronic Oil Level Monitoring	S	S	S			230 V-1-50/60 Hz
6	Oil Level Monitoring	mechanical Float Switch				S	S	
7	Oil Heater(s)	Standard	S	S	S			230 V-1-50/60 Hz
8		Explosion Proof Design				S	S	
9	Oil Thermostat	Standard	S	S	S	S	S	230 V-1-50/60 Hz
10	Oil Outlet Connection	Pipe Connection	S		S	S		with Brazing Bushing
11		Shut-off Valve		S			S	with Brazing Bushing
12	Oil Service Connection	Shut-off Valve	S	S	S	S	S	with Brazing Bushing



Item	Oil Separators for Screw Compressors		Series		Oil Separators for HFC / R22					Oil Separators for NH3					Secondary Oil Separators for NH3					Combined Oil Separators for NH3		Oil Separators for HFC / R22 Explosion Proof (see DB-309)					Oil Separators for NH3 Explosion Proof (see DB-309)					Secondary Oil Separators for flooded Evaporation	
			Type		OA1954	OA4188	OA9111	OA14111	OA25112	OA1954A	OA4188A	OA9111A	OA14111A	OA25112A	OAS322	OAS744	OAS1055	OAS1655	OAS3088	OAC14011A	OAC25112A	OA1954EX	OA4188EX	OA9111EX	OA14111EX	OA25112EX	OA1954EX	OA4188EX	OA9111EX	OA14111EX	OA25112EX	OAF6288	OAF15211
			Price EUR		2.614,-	4.280,-	7.149,-	11.580,-	19.161,-	2.749,-	4.604,-	7.403,-	11.741,-	19.448,-	1.408,-	2.060,-	2.760,-	3.101,-	5.038,-	24.945,-	33.481,-	5.948,-	9.183,-	12.603,-	24.147,-	31.885,-	6.216,-	9.449,-	12.870,-	24.307,-	32.323,-	1.972,-	3.065,-
	Oil Volume [dm ³]			18	40	90	140	250	18	40	90	140	250	0.4	0.7	1.0	1.0	1.5	140	250	18	40	90	140	250	18	40	90	140	250	max. 12.0	max. 32.0	
	Accessories		Additional Information		Price EUR	Part No.																											
1	Discharge Gas Outlet		Shut-off Valve		64,-		•															•											
2					340,-			•																•									
3					851,-				•	•															•	•							
4					219,-						•																	•					
5					422,-							•																	•				
6					915,-								•	•																•	•		
7	Oil Outlet		Shut-off Valve		30,-		•															•											
8					77,-			•	•															•	•								
9					142,-				•																•								
10					196,-						S	S	S	S	S						•							S	S	S	S	S	
11					340,-																												
12					422,-																			•									
13	Adapter for Pressure Relief Valve		G 1/2 - Internal Thread		38,-		•	•	•	•	•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	
G 1/2 - External Thread			38,-		•	•	•	•	•	•	•								•	•	•	•	•	•	•	•	•	•	•	•	•		
1/2 " - 14 NPTF - Internal Thread			38,-		•	•	•	•	•	•	•								•	•	•	•	•	•	•	•	•	•	•	•	•		
1/2 " - 14 NPTF - External Thread			38,-		•	•	•	•	•												•	•	•	•	•					•	•		
17	Spare Filter Kit		complete with Gaskets		362,-	36220904									•																		
18					610,-	36220905										•																	
19					808,-	36220901													•														
20					1.160,-	36220902														•													
21					1.747,-	36220903																											
22					8.351,-	36220906																											
23					12.494,-	36220907																		•									
24	Oil Level Monitoring OLC-D1-D opto-electronic Monitoring		230 V-1-50/60 Hz		276,-		S	S	S	S	S	S	S	S	S	S	S	S												•	•		
115 V-1-50/60 Hz			276,-		•	•	•	•	•	•	•	•	•	•	•	•	•											•	•				
24 V AC/DC			276,-		•	•	•	•	•	•	•	•	•	•	•	•	•											•	•				
27	Oil Level Monitoring		mechanical Float Switch		--		•	•	•	•	•	•	•	•	•	•	•	•			S	S	S	S	S	S	S	S	S				

[illegible]



Item	Hermetic Scroll Compressors		Product Series				Additional Information
				ORBIT			
			ESH7	GSD6	GSD8	GSD8 Boreal	
	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	ESH.. <u>B</u> and Orbit GSD.. <u>B</u> Versions
3	Connection Discharge Line	Direct Brazing	S	S	S	S	ESH.. <u>B</u> and Orbit GSD.. <u>B</u> Versions
4	Oil Charge	BVC32		S	S	S	Polyvinyl Ether Oil
5		BSE35K	S				Ester Oil
6	Connection for Oil Service		S	S	S	S	
7	Sight Glass		S	S	S	S	
8	Motor Protection Device	SE-B2	S				230 V-1-50/60 Hz
9		SE-B3		S	S	S	115/230 V-1-50/60 Hz
10	Terminal Box	Enclosure Class IP54	S	S	S	S	
11	Vibration Dampers		S	S	S	S	with Sleeves (for Single Compressor Operation)

Item	Hermetic Scroll Compressors		Series	Series 7				Orbit 6				Orbit 8				Orbit 8 Boreal			
			Type					GSD60120VAB	GSD60137VAB	GSD60154VAB	GSD60182VAB	GSD60235VAB	GSD80182VAB	GSD80235VAB	GSD80385VAB	GSD80421VAB	GSD80485VAB	GSD80485VWB	
				ESH725BY	ESH730BY	ESH736BY	ESH743BY	3.317,-	3.443,-	3.580,-	3.811,-	4.465,-	4.174,-	4.555,-	5.186,-	5.796,-	6.337,-	6.865,-	6.865,-
	Price EUR																		
	Accessories	Additional Information																	
1	Motor for Special Voltage	available Motors see EST-410																	
2	Oil Charge B5.2	"Y" Designation omitted		○	○	○	○												
3	Rotalock Connections at Housing (Standard: Brazing Connections)	GSD: "R" instead of "B" Designation ESH: " <u>B</u> " Designation omitted	144,-	●	●	●	●						●	●	●	●	●		
4	Oil Heater	65 W, 230 V	49,-	●	●	●	●												
5		65 W, 115 V	49,-	●	●	●	●												
6		90 W, 230 V, Band Heater	56,-					●	●	●	●								
7		90 W, 115 V, Band Heater	56,-					●	●	●	●								
8		90 W, 460 V, Band Heater	56,-					●	●	●	●								
9		90 W, 575 V, Band Heater	56,-					●	●	●	●								
10		140 W, 230 V, Band Heater	64,-									●	●	●	●	●	●		
11		140 W, 115 V, Band Heater	64,-									●	●	●	●	●	●		
12		140 W, 460 V, Band Heater	64,-									●	●	●	●	●	●		
13	140 W, 575 V, Band Heater	64,-									●	●	●	●	●	●			
14	Discharge Gas Temperature Sensor	PTC 140	138,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
15	Protection Device SE-E1	115/230 V-1-50/60 Hz	116,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
16		24 V-1-50/60 Hz	116,-					●	●	●	●	●	●	●	●	●	●		
17	Protection Device SE-B2	24 V-1-50/60 Hz	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
18		24 V-DC	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
19	Rotalock Adapters with Brazing Connections (for R-Version); Kit for Suction and Discharge Side including Gaskets; <u>Rotalock Connections</u> (Item 3) required	D28L / D22L	45,-	●	●	●													
20		D35L / D22L	45,-	●	●	●													
21		D35L / D28L	116,-				●												
22		D42L / D28L	116,-				●												
23		D42L / D35L	116,-									●	●	●	●	●	●		
24	Rotalock Shut-off Valves (for R-Version) Kit for Suction and Discharge Side including Gaskets; <u>Rotalock Connections</u> (Item 3) required	D28L / D22L	133,-	●	●	●													
25		D35L / D22L	133,-	●	●	●													
26		D35L / D28L	242,-				●												
27		D42L / D28L	242,-				●												
28		D42L / D35L (for VAR / VWR)	242,-									●	●	●	●	●	●		
29	Brazing Adapter Kit	for Rotalock Connections	75,-					●	●	●	●	●							
30	Sound Jacket		581,-										●	●	●	●	●		



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
	Tandem / Trio Assembly Kits	Additional Information	Price EUR	Part No.																				
31	Vibration Dampers	with Sleeves for Tandem (Trio) Operation, <i>Kit for 1 Compressor</i>	25,-	--	●	●	●	●						●	●	●	●	●	●	●	●	●	●	
32		with Sleeves for Tandem Operation, <i>Kit for 2 Compressors</i>	50,-	--					●	●	●	●	●											
33		with Sleeves for Trio Operation, <i>Kit for 3 Compressors</i>	75,-	--					●	●	●	●	●											
34	Tandem Assembly Kit for ESH.. Compressors	Even Tandems (<u>B</u> -Version)	825,-	35810201	●	●	●																	
35		Even Tandems (<u>B</u> -Version)	1.049,-	35810401				●																
36		Uneven Tandems (<u>B</u> -Version) ESH725BY + ESH736BY	862,-	35810601	●	●																		
37		Even Tandems (<u>Rotalock</u>)	973,-	35810101	●	●	●																	
38		Even Tandems (<u>Rotalock</u>)	1.275,-	35810301				●																
39		Uneven Tandems (<u>Rotalock</u>) ESH725Y and ESH736Y	1.013,-	35810501	●	●																		
40	Tandem Mounting Rail Kit for even or uneven Tandems	Vibration Dampers and Mounting Rails	313,-	32403903					●	●	●	●	●											
41			348,-	32403901											●	●	●	●	●	●	●	●	●	●
42	Tandem Piping Kit (BAHT) for even or uneven Tandems with <u>GSD6... Compressors</u>	Suction, Discharge and Oil Equalization Pipes and Fittings	1.148,-	36049007					●	●	●	●	●											
43	Tandem Piping Kit for even Tandems with GSD8...V. <u>B</u> (<u>direct Brazing Connections</u>)		1.071,-	36049004										●	●	●	●	●	●	●	●	●	●	
44	Tandem Piping Kit for uneven Tandems with GSD8...V. <u>B</u> (<u>direct Brazing Connections</u>)		1.071,-	36049005										●	●	●	●	●	●	●	●	●	●	
45	Trio Mounting Rail Kit for even or uneven Trios with GSD6... <u>Compressors</u>	Vibration Dampers and Mounting Rails	428,-	32403904					●	●	●	●	●											
46	Trio Mounting Rail Kit for even Trios with GSD8...V. <u>B</u> (<u>direct Brazing Connections</u>)		475,-	32404001										●	●	●	●	●	●	●	●	●	●	
47	Trio Piping Kit (BAHT) for even or uneven Trios with GSD6... <u>Compressors</u>	Suction, Discharge and Oil Equalization Pipes and Fittings	1.953,-	36049106					●	●	●	●	●											
48	Trio Piping Kit for even Trios with GSD8...V. <u>B</u> (<u>direct Brazing Connections</u>)		1.854,-	36049103										●	●	●	●	●	●	●	●	●	●	



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 and 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		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	Price EUR	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
				Series	Water-cooled - R290 / R1270												Seawater-cooled - R290 / R1270																
				Type	Price EUR	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
			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	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	
			Cu-Ni (kg)																														
	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	S	S																
3		for 2 pass Operation	--							O	O	O	O	O	O	O	O																
4		Plastic coated	86,-	•	•	•												S	S	S													
5		for 2 and 4 pass Operation	115,-				•	•	•												S	S	S										
6		Plastic coated for 4 pass Operation	186,-							•	•	•	•	•	•	•	•							S	S	S	S						
7		Plastic coated for 2 pass Operation	186,-								•	•	•	•	•	•	•						O	O	O	O							
8		Plastic coated for 4 pass Operation	357,-												•	•	•	•									S	S	S	S	S	S	
9		Plastic coated for 2 pass Operation	357,-												•	•	•	•									O	O	O	O	O	O	
10	Inlet Connection	Pipe Connection D12L	--	S	S													S	S														
11		Shut-Off Valve D12L	73,-	•	•													•	•														
12		Pipe Connection D16L	50,-	•	•	S	S											•	•	S	S												
13		Shut-Off Valve D16L	73,-			•	•																										
14		Pipe Connection D22L	50,-				•	•	S												•	•	S										
15		Shut-Off Valve D22L	73,-					•														•											
16		Pipe Connection D28L	50,-					•	S													•		S									
17		Shut-Off Valve D28L	181,-					•															•										
18		Pipe Connection D35L	50,-					•	S	S													•		S	S							
19		Shut-Off Valve D35L	181,-							•	•													•	•								
20		Pipe Connection D42L	50,-							•	•	S	S											•	•		S	S					
21		Shut-Off Valve D42L	181,-									•	•													•	•						
22		Pipe Connection D54L	50,-									•	•													•	•		S	S			
23		Shut-Off Valve D54L	222,-										•	•	•	•											•	•	•	•			
24		Pipe Connection D76L	50,-											•	•	•	•	S	S									•	•	•	S	S	
25		Shut-Off Valve D76L	455,-														•	•											•	•	•	•	



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	533,-	649,-	743,-	1.124,-	1.319,-	1.458,-	2.339,-	2.736,-	3.217,-	3.876,-	6.101,-	7.681,-	11.372,-	13.088,-	757,-	978,-	1.104,-	1.650,-	1.987,-	2.174,-	3.361,-	4.057,-	4.673,-	5.705,-	8.852,-	11.547,-	16.008,-	18.759,-
			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	559,-	681,-	780,-	1.181,-	1.385,-	1.531,-	2.455,-	2.873,-	3.378,-	4.070,-	6.406,-	8.065,-	11.941,-	13.743,-	795,-	1.027,-	1.159,-	1.733,-	2.087,-	2.283,-	3.529,-	4.259,-	4.906,-	5.991,-	9.295,-	12.125,-	16.808,-	19.697,-			
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											
30		Shut-Off Valve D28L	--						S	S												S	S								
31		Shut-Off Valve D35L	--								S	S												S	S						
32		Pipe Connection D35L	50,-																												
33		Shut-Off Valve D42L	--										S														S				
34		Pipe Connection D42L	50,-												S																
35		Shut-Off Valve D54L	--												S													S			
36		Pipe Connection D54L	50,-														S														
37		Shut-Off Valve D76L	--												S	S													S	S	
38		Pipe Connection D76L	50,-																												
39	Second Outlet Connection (with Lock Nut / Blind Flange)	with lower Fixing Rails	171,-																												
40			114,-																												
41		--	259,-																												
42			333,-															S	S	S	S	S	S	S	S	S	S	S	S	S	
43			422,-																												
44		487,-																													
45	Pipe Connection for second Outlet Connection	D35L	50,-																												
46		D42L	50,-																												
47		D54L	50,-																												
48		D76L	50,-																												
49	Shut-off Valve for second Outlet Connection	D22L	73,-																												
50		D28L	181,-																												
51		D35L	181,-																												
52		D42L	181,-																												
53		D54L	222,-																												
54		D76L	455,-																												

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	533,-	649,-	743,-	1.124,-	1.319,-	1.458,-	2.339,-	2.736,-	3.217,-	3.876,-	6.101,-	7.681,-	11.372,-	13.088,-	757,-	978,-	1.104,-	1.650,-	1.987,-	2.174,-	3.561,-	4.057,-	4.673,-	5.705,-	8.852,-	11.547,-	16.008,-	18.759,-
		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	559,-	681,-	780,-	1.181,-	1.385,-	1.531,-	2.455,-	2.873,-	3.378,-	4.070,-	6.406,-	8.065,-	11.941,-	13.743,-	795,-	1.027,-	1.159,-	1.733,-	2.087,-	2.283,-	3.529,-	4.259,-	4.906,-	5.991,-	9.295,-	12.125,-	16.808,-	19.697,-		
	Accessories	Additional Information																												
55	Upper Fixing Rails for Compressor Mounting (Kit)	for CE1	72,-		●	●											●	●												
56		for CE2	72,-			●	●	●	●									●	●	●										
57		for CE3	72,-				●	●	●	●	●								●	●	●	●								
58		for CE4S	72,-				●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	
59		for BE5 .. BE6	72,-							●	●	●	●	●	●	●								●	●	●	●	●	●	
60	Fixing Plate for Compressor Mounting (Kit)	for CE1 .. CE2	70,-		●	●											●	●												
61		for CE1 .. BE6	81,-				●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●		
62	Frame for Tandem Compressor Mounting	for Tandem BE5 .. BE6	372,-							●	●	●	●	●	●									●	●	●	●	●		
63	Lower Fixing Rails for Condenser Mounting (Kit)		72,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
64	Adapter for Pressure Relief Valve	1/2 "- 14 NPTF - Internal Thread	38,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
65		G 1/2 - Internal Thread	38,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
66		1/2 "- 14 NPTF - External Thread	38,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
67		G 1/2 - External Thread	38,-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
68	Cleaning Brush for Coolant Pipes	Part No. 99040102	19,-	●	●	●	●	●								●	●	●	●	●										
69		Part No. 99040103	19,-						●	●	●	●	●	●	●							●	●	●	●	●	●	●		



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	237,-	354,-	394,-	489,-	467,-	538,-	553,-	769,-	623,-	793,-	926,-	1.027,-	1.184,-	1.333,-	1.612,-	1.890,-	2.586,-	2.905,-	698,-	1.163,-	1.593,-	2.334,-
			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	249,-	372,-	415,-	514,-	490,-	566,-	581,-	808,-	654,-	833,-	973,-	1.079,-	1.243,-	1.400,-	1.693,-	1.985,-	2.716,-	3.050,-				
Accessories		Additional Information																							
1	Inlet Connection	Pipe Connection D12L	--	S																					
2		Shut-off Valve D12L	73,-	●																					
3		Pipe Connection D16L	--		S		S																		
4		Pipe Connection D22	--			S		S	S	S															
5		Shut-off Valve D22L	73,-		●	●	●	●	●	●															
6		Pipe Connection D28L	--								S	S													
7		Shut-off Valve D28L	181,-								●	●													
8		Pipe Connection D35L	--										S	S											
9		Shut-off Valve D35L	181,-										●	●											
10		Pipe Connection D42L	--												S	S				S					
11		Shut-off Valve D42L	181,-												●	●				●					
12		Pipe Connection D54L	--														S	S				S	S		
13		Shut-off Valve D54L	222,-														●	●				●	●		
14		Pipe Connection D76L	--																S	S					S
15		Shut-off Valve D76L	455,-																●	●					●
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	181,-									●	●	●	●	S	S								
22		Shut-off Valve D42L	--															S	S		S	S	S		
23		Shut-off Valve D54L	--																S	S					S

[illegible]

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	663,-	964,-	1.195,-	1.584,-	2.171,-	3.486,-	767,-	1.282,-	1.751,-	2.565,-
	Accessories	Additional Information											
1	Inlet Connection	Pipe Connection DN20	--	S									
2		Pipe Connection DN25	--		S								
3		Pipe Connection DN40	--			S	S						
4		Pipe Connection DN50	--					S					
5		Pipe Connection DN80	--						S				
6		Pipe Connection D22	--							S	S	S	
7		Shut-off Valve D22L	73,-							•	•	•	
8		Pipe Connection D28L	--										S
9		Shut-off Valve D28L	181,-										•
10	2X Inlet Connection for CO ₂ Receivers	2X Pipe Connection D22L	100,-							•	•	•	
11		2X Pipe Connection D28L	100,-										•
12		2X Shut-off Valve D22L	147,-							•	•	•	
13		2X Shut-off Valve D28L	363,-										•
14	Outlet Connection	Shut-off Valve DN20	--	S									
15		Shut-off Valve DN25	--		S								
16		Shut-off Valve DN32	--			S	S						
17		Shut-off Valve DN40	--					S					
18		Shut-off Valve DN50	--						S				
19		Shut-off Valve D22L	--							S	S	S	
20		Shut-off Valve D28L	--										S
21	Lower Fixing Rails	for Receiver Mounting (Kit)	72,-	•	•	•	•						
22	Minimum Level Control OLC-D1-D	opto-electronic Liquid Level Monitoring	276,-	•	•	•	•	•	•	•	•	•	•
23	Maximum Level Control OLC-D1-D	opto-electronic Liquid Level Monitoring	276,-	•	•	•	•	•	•	•	•	•	•
24	Adapter for Pressure Relief Valve	1/2 "- 14 NPTF - Internal Thread	38,-	•	•	•	•	•	•	•	•	•	•
25		G 1/2 - Internal Thread	38,-	•	•	•	•	•	•	•	•	•	•
26		1/2 "- 14 NPTF - External Thread	38,-							•	•	•	•
27		G 1/2 - External Thread	38,-							•	•	•	•
28	Sight Glass	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	FS1602K	
			Price EUR	145,-	161,-	189,-	268,-	375,-	436,-	522,-	616,-	642,-	709,-	1.108,-	1.244,-	1.281,-	1.768,-	2.081,-	2.810,-	2.810,-	3.065,-	5.718,-	6.142,-	6.900,-	820,-	1.278,-	1.716,-	2.490,-
			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	203,-	269,-	301,-	382,-	393,-	459,-	548,-	646,-	675,-	745,-	1.163,-	1.305,-	1.344,-	1.856,-	2.185,-	2.951,-	3.218,-	6.004,-	6.448,-	7.245,-					
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	73,-					●	●															●	●	●		
6		Pipe Connection D28L	--									S	S													S		
7		Shut-off Valve D28L	181,-							●	●	●	●													●		
8		Pipe Connection D35L	--										S	S														
9		Shut-off Valve D35L	181,-										●	●														
10		Pipe Connection D42L	--												S													
11		Shut-off Valve D42L	181,-												●													
12		Pipe Connection D54L	--													S	S											
13		Shut-off Valve D54L	222,-													●	●											
14		Pipe Connection D76L	--															S	S									
15		Shut-off Valve D76L	455,-															●	●									
16		Pipe Connection D108L	--																	S	S	S						
17		Shut-off Valve D108L	1.042,-																	●	●	●						
18	2X Inlet Connection for CO ₂ Receivers	2X Pipe Connection D22L	100,-																				●	●	●			
19		2X Pipe Connection D28L	100,-																						●			
20		2X Shut-off Valve D22L	147,-																				●	●	●			
21		2X Shut-off Valve D28L	363,-																							●		
22	Outlet Connection	Lock Nut	--	S	S	S	S																					
23		Shut-off Valve D10L	73,-	●	●																							
24		Shut-off Valve D12L	73,-			●	●	S																				
25		Shut-off Valve D16L	73,-			●	●		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	145,-	161,-	189,-	268,-	375,-	436,-	522,-	616,-	642,-	709,-	1.108,-	1.244,-	1.281,-	1.768,-	2.081,-	2.810,-	3.065,-	5.718,-	6.142,-	6.900,-	820,-				
			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	203,-	269,-	301,-	382,-	393,-	459,-	548,-	646,-	675,-	745,-	1.163,-	1.305,-	1.344,-	1.856,-	2.185,-	2.951,-	3.218,-	6.004,-	6.448,-	7.245,-					
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	77,-		●	●	●																					
35	Minimum Level Control	mechanical Float Switch	276,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●							
36	Maximum Level Control	mechanical Float Switch	276,-					●	●	●	●	●	●	●	●	●	●	●	●	●	●							
37	Minimum Level Control OLC-D1-D	opto-electronic Liquid Level Monitoring	276,-				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
38	Maximum Level Control OLC-D1-D	opto-electronic Liquid Level Monitoring	276,-				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
39	Adapter for Pressure Relief Valve (FS56 .. FS16: Sight Glass required)	1/2 "- 14 NPTF - Internal Thread	38,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
40		G 1/2 - Internal Thread	38,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
41		1/2 "- 14 NPTF - External Thread	38,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
42		G 1/2 - External Thread	38,-		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
43		3/8" NPTF - Internal Thread	38,-							●	●	●	●	●	●	●	●	●	●	●	●	●						
44	Electronic Level Control	with analog Output Signal	on Request						on Request																			
45	Monitoring Device	for Level Control	on Request						on Request																			



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

Item	Special Options		Price EUR	Product Series								
				Reciprocating Compressors		Condensing Units with Reciprocating Compressors	Screw Compressors			Scroll Compressors		Pressure Vessels
				Semi-Hermetic	Open Drive		OS..	HS..	CSH.. CSW..	ESH	Orbit 6 Orbit 8	
	Description	Additional Information										
1	Special Painting	available RAL Colours on Request	384,-	•	•		•	•	•	•	•	
2	Without Painting	wrapped in Foil	384,-				•	•	•			
3	Special Documentation (on Request)	e.g.: Preparation for Special Approvals	1.116,-	•	•		•	•	•			
4			744,-								•	
5	Special Approvals with In-house Inspection at BITZER	Approval Costs charged by the Certification Organization are passed on to the Customer!	on request									
6	TR Certification	for Export to GUS (former GOST-R)	230,-	•	•	•	•	•	•	•	•	
7	UL Approval		--	Availability: see UL Files SLIS2.SA7129, SLIS8.SA7129 (www.ul.com)								
8	Without Motor Protection Device	without SE-B1 without SE-B2 without SE-B3	-25,-	•		•				•	•	
9		without SE-E1	-56,-					•	•			
10	Without Oil Injection Kit	HS/OS 53 .. 74	-902,-				•	•				

Item	Lubricants for Reciprocating and Scroll Compressors (Technical Information: see KT-500 and KT-510)		Series		CE1 .. CE8, B4	BS4 .. BS6	CH1 .. CH4	CKH3, CKH4, CKH3F	CEP1 .. CEP8	CE2F .. CE4F	CD3, CD4	BO3 .. BO6	BO56	BOA3 .. BOA6	0 .. VIIW	ESH7	GSD6, GSD8	for Refrigerant:
	Oil Type	Container Size (liter)	Price EUR	Part No.														
1	BSE32	1	43,-	91511002	✓	✓				✓		✓	✓		✓			HFC (R134a, R407C, R404A...)
2		5	198,-	91511004														
3		10	382,-	91511005														
4		205	6.249,-	91511001														
5	BSE55	1	45,-	91511102	✓	✓			✓	✓	✓	✓		✓				
6		5	204,-	91511104														
7		10	386,-	91511105														
8		205	6.272,-	91511101														
9	B5.2	1	19,-	91510212	✓	✓					✓	✓	✓	✓	✓	✓		R22
10		5	93,-	91510111														
11		10	131,-	91510114														
12		205	2.124,-	91510211														
13	BSE60K	1	39,-	91512501			✓											CO ₂
14		5	179,-	91512502														
15		10	345,-	91512503														
16		205	5.942,-	91512504														
17	BSE85K	1	99,-	91512802			✓	✓										
18		5	479,-	91512803														
19		10	934,-	91512801														
20		205	14.492,-	91512804														
21	BSG68K	20	1.868,-	91513403				✓										NH ₃
22	KC68	1	16,-	91513502									✓					
23		10	161,-	91513504														
24		209	2.125,-	91513501														
25	SHC226E	20	775,-	91512003					✓									
26		209	7.004,-	91512001														
27	BSE35K	1	38,-	91513004												✓		HFC (R134a, R407C, R404A...)
28		5	177,-	91513002														
29		10	341,-	91513003														
30		205	5.839,-	91513001														
31	BVC32	1	64,-	91513301													✓	R410A
32		5	284,-	91513302														
33		18	973,-	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	66,-	91511502	✓	✓	✓	✓	✓		HFC (R134a, R407C, R404A...)									
2		5	306,-	91511504																
3		10	477,-	91511505																
4		205	9.227,-	91511501																
5	BSE170L	1	66,-	91511806		✓														
6		5	306,-	91511801																
7		10	477,-	91511802																
8		205	9.227,-	91511804																
9	B320SH	1	68,-	91512407	✓	✓					R22									
10		5	276,-	91512409																
11		20	817,-	91512408																
12		208	8.307,-	91512406																
13	B150SH	1	71,-	91511705				✓	✓											
14		5	299,-	91511706																
15		20	843,-	91511707																
16	B100	20	375,-	91510903				✓	✓											
17		209	3.377,-	91510901																
18	KC68	1	16,-	91513502						✓	NH ₃									
19		10	161,-	91513504																
20		209	2.125,-	91513501																
21	SHC226E	5	228,-	91512004						✓										
22		20	775,-	91512003																
23		209	7.004,-	91512001																

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





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