



# PRICE LIST 2025

## STOCK EQUIPMENT

**21 January 2024**

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WAREHOUSE AND SALES DEPARTMENT Al. Krakowska 80A, 05-552 Stefanowo  
opening hours Monday - Friday 8:00-16:00**

registered in the Warsaw District Court, 12th Commercial Division of the National Court Register,  
company register number KRS: 0000298346, tax identification number: PL5220059742,  
share capital: PLN 14 280 000, paid capital: PLN 14 280 000



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All prices are gross prices and do not include VAT.

We reserve the right to make changes.

# COMPRESSORS, TANDEM, ACCESSORIES



## BITZER semi-hermetic piston compressors ECOLINE

Type	Cooling capacity Q <sub>0</sub> [kW] for R404A/R507 at evaporation/condensing temperature [°C]			Cooling capacity Q <sub>0</sub> [kW] for R449A/R448A at evaporation/condensing temperature [°C]			Price [EUR]
							Standard execution
	+5/+40	-5/+40	-25/+40	+5/+40	-5/+40	-25/+40	Compressor with crankcase heater
2KES-05Y	3,52	2,39	0,9	3,58	2,33	0,78	1 028,-
2JES-07Y	4,74	3,25	1,29	4,72	3,1	1,09	1 039,-
2HES-1Y	-	4,09	1,65	-	3,95	1,43	1 049,-
2HES-2Y	6,06	4,09	1,65	5,97	3,95	1,43	1 070,-
2GES-2Y	6,91	4,79	1,99	7	4,65	1,7	1 070,-
2FES-2Y	-	5,96	2,45	-	5,87	2,16	1 114,-
2FES-3Y	8,56	5,93	2,44	8,83	5,87	2,16	1 168,-
2EES-2Y	-	7,67	3,18	-	7,29	2,73	1 567,-
2EES-3Y	11,07	7,67	3,18	10,9	7,29	2,73	1 690,-
2DES-2Y	-	9,17	3,85	-	8,7	3,31	1 630,-
2DES-3Y	13,18	9,17	3,85	12,99	8,7	3,31	1 698,-
2CES-3Y	-	11,28	4,83	-	10,71	4,16	1 690,-
2CES-4Y	16,15	11,28	4,83	15,92	10,71	4,16	1 761,-
4FES-3Y	-	12,26	5,14	-	11,79	4,52	1 820,-
4FES-5Y	17,81	12,26	5,14	17,6	11,79	4,52	2 009,-
4EES-4Y	-	15,55	6,52	-	14,79	5,64	1 863,-
4EES-6Y	22,4	15,39	6,38	22,1	14,79	5,64	2 136,-
4DES-5Y	-	18,53	7,79	-	17,41	6,6	2 340,-
4DES-7Y	26,9	18,54	7,79	26,1	17,41	6,6	2 460,-
4CES-6Y	-	22,4	9,31	-	21,4	8,3	2 571,-
4CES-9Y	32,6	22,4	9,31	31,9	21,4	8,3	2 671,-
4BES-9Y	-	24,7	10,22	-	23,6	9,11	2 981,-
4VES-7Y	-	23,5	9,28	-	22,3	8,14	3 348,-
4VES-10Y	34,7	23,5	9,3	33,9	22,4	8,16	3 484,-
4TES-9Y	-	28,5	11,5	-	27,1	10,15	3 437,-
4TES-12Y	41,7	28,5	11,46	40,8	27,1	10,11	3 587,-
4PES-12Y	-	32,7	12,8	-	31	11,2	3 728,-
4PES-15Y	48,2	32,5	13,68	47	30,9	11,09	3 890,-
4NES-14Y	-	38,8	15,64	-	36,9	13,8	4 199,-
4NES-20Y	56,9	38,8	15,66	55,6	36,9	13,83	4 455,-
4JE-15Y	-	44,3	18,6	-	42,3	16,49	5 506,-
4JE-22Y	63,0	43,4	17,8	61,6	41,4	15,66	5 791,-
4HE-18Y	-	51,7	22,0	-	49,4	19,63	5 520,-
4HE-25Y	73,6	51,0	21,4	72,1	48,7	18,99	5 807,-
4GE-23Y	-	59,8	25,9	-	52,2	23,1	6 193,-

# COMPRESSORS, TANDEM, ACCESSORIES



## BITZER semi-hermetic piston compressors ECOLINE – continued

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/condensing temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/condensing temperature [°C]			Price [EUR]
	+5/+40	-5/+40	-25/+40	+5/+40	-5/+40	-25/+40	Standard execution
							Compressor with crankcase heater
4GE-30Y	84,4	58,6	25,8	82,6	56	22	<b>6 450,-</b>
4FE-28Y	-	70,5	30,9	-	67,6	27,7	<b>6 422,-</b>
4FE-35Y	99,8	70	30,4	98	67	27,2	<b>6 688,-</b>
6JE-25Y	-	65,9	27,7	-	62,9	24,6	<b>6 803,-</b>
6JE-33Y	93,3	64,2	26,2	91,3	61,2	23,1	<b>7 818,-</b>
6HE-28Y	-	75,9	32,4	-	72,6	28,9	<b>7 011,-</b>
6HE-35Y	108	74,9	31,5	105,8	71,5	28	<b>8 040,-</b>
6GE-34Y	-	87,9	38,9	-	84,4	35	<b>8 040,-</b>
6GE-40Y	122,2	85,2	36,4	119,9	81,5	32,4	<b>8 588,-</b>
6FE-44Y	-	105,7	46,3	-	101,3	41,5	<b>9 742,-</b>
6FE-50Y	148,5	103,8	44,6	145,7	99,4	39,8	<b>10 005,-</b>

Sample code: BU-4GE-23Y-M

### Optional equipment:

Capacity regulation: 1x head prepared +

solenoid valve - **268,-** EUR

OLC-K1 for 4FES - 4NES - **157,-** EUR

MP54 / DeltaP II for 4JE - 6FE - **183,-/157,-** EUR

### Cylinder head fan:

2KES-2FES - **198,-** EUR - code: BC-DW-343021-01-M \*

2EES-2CES - **260,-** EUR - code: BC-DW-343021-12-M

4FES-4CES - **260,-** EUR - code: BC-DW-343021-29-M

4VES-4NES - **260,-** EUR - code: BC-DW-343021-27-M

4JE-4FE - **332,-** EUR - code: BC-DW-343021-22-M

6JE-6FE - **332,-** EUR - code: BC-DW-343021-23-M

\* Until stock last

## BITZER tandem compressors ECOLINE

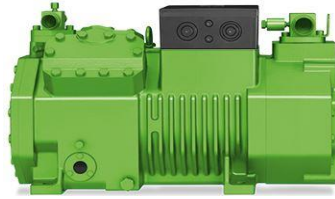
Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/condensing temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/condensing temperature [°C]			Price [EUR]
	+5/+40	-5/+40	-25/+40	+5/+40	-5/+40	-25/+40	Standard execution
							Tandem compressors with capacity regulation (2x) and crankcase heaters (2x)
44EES-12Y	44,8	30,8	12,8	44,2	26,6	11,28	<b>4 485,-</b>
44DES-14Y	53,8	37,1	15,6	52,1	34,8	13,2	<b>5 144,-</b>
44CES-18Y	65,2	44,8	18,6	63,8	42,8	16,6	<b>5 575,-</b>

### Optional equipment

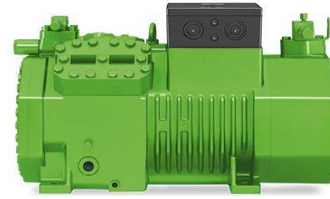
Solenoid valve for capacity regulation (1 pc.) **202,-** EUR

# COMPRESSORS

CO<sub>2</sub>



2...SL...



4...TC...

## SUBCRITICAL semi-hermetic piston compressors

Type	Cooling capacity Q <sub>o</sub> [kW] for R744 at evaporating/condensing temperature [°C]			Price [EUR]	
	-30/-10	-35/-10	-40/-10	Standard execution	
				Compressor	Crankcase heater
2JSL-2K-40S	7,18	5,65	4,36	1 791,-	
2HSL-3K-40S	9,28	7,36	5,71	1 843,-	
2FSL-4K-40S	13,97	11,22	8,86	1 868,-	

Compressor equipped with suction/discharge shut-off valve, suction safety-valve, electronic motor protection device SE-B1, with ester oil BSE60K charge

## TRANSCRITICAL semi-hermetic piston compressors

Type	Cooling capacity Q <sub>o</sub> [kW] for R744 at evaporating/ output from gas cooler temperature [°C]			Price [EUR]	
	-5/+25	-5/+35	-5/+45	Compressor	Crankcase heater
4MTE-10K-40S	19,68	14,94	11,74	5 240,-	S
4KTE-10K-40S	29,20	22,10	16,73	5 360,-	S
4HTE-20K-40S	37,20	28,60	22,80	6 697,-	S
4FTE-20K-40P	55,70	42,60	32,60	7 146,-	S
4FTE-30K-40S	55,60	43,80	35,50	8 119,-	S

Compressor equipped with discharge safety-valve, electronic motor protection device SE-B1, with ester oil BSE85K charge

**NOTE: Components for CO<sub>2</sub> installations can be found in a separate price list**

# COMPRESSORS, TANDEM, ACCESSORIES



## BITZER SCROLL compressors for R410A and R32

Type	Cooling capacity Q <sub>o</sub> [kW] for R410 at evaporating/condensing temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R32 at evaporating/condensing temperature [°C]			Price [EUR]		
	+5/+40	0/+40	-5/40	+5/+40	0/+40	-5/40	Compressor	Options	
								Crankcase heater	Anti-vibration elements
GSD-60137VAB4	34,6	29,1	24,3	-	-	-	<b>2 511,-</b>	43,-	18,-
GSD-60154VAB4	38,6	32,4	27	-	-	-	<b>2 612,-</b>	43,-	18,-
GSD-60182VLB4	45,4	38,2	31,9	48,8	41,1	34,4	<b>2 863,-</b>	43,-	18,-
GSD-60235VLB4	58,7	49,4	41,2	63,3	53,3	44,5	<b>3 355,-</b>	43,-	18,-
GSD-80295VLB4	75,6	63,3	52,7	80,0	67,2	56	<b>3 757,-</b>	48,-	18,-
GSD-80385VLB4	99,1	83,3	69,5	105,3	88,8	74,4	<b>4 199,-</b>	48,-	18,-
GSD-80421VLB4	106,5	89,1	74,1	113,6	95,8	80,1	<b>4 589,-</b>	48,-	18,-
GSD-80485VLB4	121,4	102	85,1	128,3	108,4	90,8	<b>4 972,-</b>	48,-	18,-



## MANEUROP hermetic piston compressors

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/condensing temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/condensing temperature [°C]			Oil type	Power supply [V/f/Hz]	Compressor	Crankcase heater (option)
	+5/+40	-5/+40	-10/+40	+5/+40	-5/+40	-10/+40				
MTZ-28	7,92	5,22	4,12	7,23	3,58	3,58	175PZ	400/3/50	<b>2 931,-</b>	179,-
MTZ-36	10,23	6,91	5,55	9,39	6,07	4,77	175PZ	400/3/50	<b>2 992,-</b>	179,-
MTZ-50	14,43	9,50	7,52	13,28	8,34	6,44	175PZ	400/3/50	<b>4 012,-</b>	179,-
MTZ-64	18,35	12,05	9,55	16,66	10,68	8,32	175PZ	400/3/50	<b>4 197,-</b>	179,-
MTZ-80	22,69	15,39	12,42	21,68	14,18	11,22	175PZ	400/3/50	<b>5 900,-</b>	179,-

All compressors are equipped with oil sight glass and oil connection.  
Sample code: D-MTZ28-4VI-M

# COMPRESSORS, TANDEM, ACCESSORIES



## TECUMSEH (d. L'UNITE HERMETIQUE) hermetic piston compressors

Type	Cooling capacity [kW] for R404A Condensing temperature 40°C Superheat 10 K, Subcooling 3 K Evaporation temperature:			Cooling capacity [kW] for R449A/448A Condensing temperature 40°C Superheat 10 K, Subcooling 3 K Evaporation temperature:			Power supply [V/f/Hz]	Price [EUR]
	+5°C	-5°C	-10°C	+5°C	-5°C	-10°C		
	AE-4460-Z-FZ	1,70	1,13	0,91	1,67	1,07		
AE-4470-Z-FZ	1,97	1,32	1,06	1,94	1,25	0,99	230/1/50	<b>293,-</b>
CAJ-9480-Z-FZ <sup>1)</sup>	2,39	1,54	1,21	2,35	1,46	1,13	230/1/50	<b>402,-</b>
CAJ-9510-Z-FZ <sup>1)</sup>	2,97	1,92	1,52	2,92	1,82	1,41	230/1/50	<b>417,-</b>
CAJ-9513-Z-FZ <sup>1)</sup>	3,87	2,47	1,93	3,81	2,35	1,79	230/1/50	<b>440,-</b>
AJ-4517-P-FZ <sup>1)</sup>	4,21	2,73	2,17	4,15	2,60	2,01	230/1/50	<b>457,-</b>
AJ-4517-P-TZ <sup>1)</sup>	4,26	2,75	2,17	4,20	2,62	2,01	400/3/50	<b>460,-</b>
TAJ-4519-Z-FZ <sup>1)</sup>	5,32	3,49	2,78	5,24	3,32	2,58	400/3/50	<b>488,-</b>
FH-4524-Z-XG <sup>2)</sup>	6,62	4,19	3,23	6,52	3,98	3,00	400/3/50	<b>678,-</b>
FH-4532-Z-XG <sup>2)</sup>	7,97	5,06	3,94	7,72	4,81	3,70	400/3/50	<b>710,-</b>
AG4546-P-TZ <sup>2)</sup>	12,92	7,82	5,90	12,74	7,43	5,48	400/3/50	<b>870,-</b>
AG-4553-P-TZ <sup>2)</sup>	14,51	8,84	6,70	14,30	8,40	6,23	400/3/50	<b>894,-</b>
TAG-4561-Z-TZ <sup>2)</sup>	15,95	9,88	7,58	15,71	9,38	7,05	400/3/50	<b>961,-</b>
AG-4573-P-TZ <sup>2)</sup>	19,53	12,38	9,65	19,25	11,76	8,97	400/3/50	<b>1 069,-</b>

<sup>1)</sup> Compressor equipped with suction shut-off valve

<sup>2)</sup> Compressor equipped with suction and discharge shut-off valves

## TECUMSEH hermetic piston compressors

Type	Cooling capacity [kW] for R404A Condensing temperature 40°C Superheat 10 K, Subcooling 3 K Evaporation temperature:			Cooling capacity [kW] for R449A/448A Condensing temperature 40°C Superheat 10 K, Subcooling 3 K Evaporation temperature:			Power supply [V/f/Hz]	Price [EUR]
	-25°C	-30°C	-35°C	-25°C	-30°C	-35°C		
	CAJ-2446-Z-FZ	0,98	0,73	0,52	0,90	0,64		
AJ-2464-P-FZ	1,27	0,94	0,68	1,16	0,83	0,58	230/1/50	<b>440,-</b>
FH-2480-Z-XG <sup>2)</sup>	1,83	1,34	0,92	1,67	1,19	0,78	400/3/50	<b>758,-</b>
FH-2511-Z-XG <sup>2)</sup>	2,86	2,03	1,37	2,60	1,80	1,16	400/3/50	<b>779,-</b>
TAG-2516-Z-TZ	3,65	2,66	1,92	3,39	2,36	1,56	400/3/50	<b>957,-</b>

<sup>2)</sup> Compressor equipped with suction and discharge shut-off valves

Compressors FH, TAG are equipped with crankcase heater.

Sample code: LH-S-CAJ-9470-Z-M



# COMPRESSORS, TANDEM, ACCESSORIES



## BITZER semi-hermetic screw compressors

Type	Cooling capacity Q <sub>o</sub> [kW] with economizer for R404A/R507 at evaporating/condensing temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] with economizer for R449A/R448A at evaporating/condensing temperature [°C]			Compressor	Price [EUR]			
								Equipment			
	-25/+40	-35/+40	-40/+40	-25/+40	-35/+40	-40/+40		Discharge shut-off valve	Adapter + shut-off valve for economizer connection	Suction shut-off valve	Vibration dampers
HSN 6461-50	71,4	48,3	38,8	63,8	42,1	33,4	<b>10 574,-</b>	71,-	182,-	S	S
HSN 7461-70	98,4	65,9	52,7	89,1	58,2	45,9	<b>11 579,-</b>	117,-	182,-	S	S
HSN 7471-75	103,3	69,8	56,2	94,3	62,2	49,5	<b>13 347,-</b>	117,-	182,-	S	S
HSN 8571-125 <sup>1)</sup>	169,6	114,4	92,0	156,0	103,5	82,7	<b>19 668,-</b>	278,-	262,-	698,-	127,-
HSN 8591-160 <sup>1)</sup>	212,0	142,0	113,8	194,9	128,4	101,9	<b>21 444,-</b>	278,-	262,-	698,-	127,-

<sup>1)</sup> Compressor equipped with shut-off valve for oil injection

56,- EUR

S - Standard equipment

Extent of delivery: semi-hermetic screw compressor with capacity regulation/start unloading, oil control with SE-B. and motor protection device SE-E., suction shut-off valve.

Sample code: BU-HSN-7471-75-M

## BITZER oil separators for screw compressors

Type	Maximal displacement [m <sup>3</sup> /h] LT range	Maximal oil charge [dm <sup>3</sup> ]	Oil separator	Price [EUR]	
				Equipment	
				Outlet shut-off valve	Adapter for safety-valve (option)
OA 1954	300	18	<b>2 007,-</b>	26,-	35,-
OA 4188	660	40	<b>3 286,-</b>	66,-	35,-
OA 9111	1320	90	<b>5 490,-</b>	66,-	35,-

Other standard equipment:

- Oil level sensor OLC-D1-D
- Oil thermostat with heater
- 1 sight glass

Sample code: BU-OA-4188-M



## TECNAC oil separators for screw compressors

TECNAC

Type	Maximal displacement [m <sup>3</sup> /h] LT range	Maximal oil charge [dm <sup>3</sup> ]	Price [EUR]	Outlet shut-off valve
SAP-40L	660	40	<b>2 783,-</b>	S
SAP-90L	1317	90	<b>4 440,-</b>	S
SAP-140L	1317	140	<b>6 307,-</b>	S
SAP-250L-813	2500	250	<b>8 809,-</b>	-

Standard execution:

- Oil level sensor
- Oil thermostat with heater
- 2 sight glasses
- Shut-off valve at oil outlet (except SAP-250L-813)

Colour „BITZER GREEN“

Sample code: TC-SOL-SAP-40L-M

# COMPRESSORS, TANDEM, ACCESSORIES

## OL - air-cooled oil coolers for screw compressors (without fans)

Code	Model	Number of fans required D 500mm	Tube volume [dm <sup>3</sup> ]	Connections [mm]	Capacity <sup>1)</sup> in [kW] for: BSE 170 Tin = +80°C Tout = +60°C Tambient = +32°C	Price [EUR]
OL-1P	OL – 1+	1	8	Ø 22	18,1	<b>1 022,-</b>
OL-2P	OL – 2+	1	15	Ø 28	31,6	<b>1 589,-</b>
OL-3	OL – 3	2	15	Ø 35	36,1	<b>2 012,-</b>
OL-3P	OL – 3+	2	23	Ø 35	52,7	<b>2 392,-</b>
OL-4	OL – 4	2	27	Ø 35	63,1	<b>2 781,-</b>

<sup>1)</sup> Capacity for FN050-4EK.4I.V7P1 fan/-s

# FREQUENCY INVERTERS

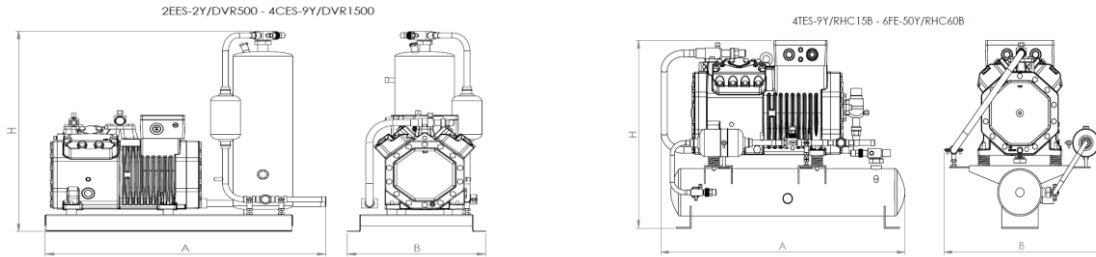
## FREQUENCY INVERTERS with software for refrigeration application, with programming panel

Code	Output power [kW]	I fal - rated current [A]	Description	Price [EUR]
VFD075CP43B-21	7,5	18	LCD display, IP20, RS485 + Modbus RTU or BackNe, 3x AI (U or I), 2 AO (U or I), 10DI, 3DO, software for refrigeration applications	<b>638,-</b>
VFD110CP43B-21	11	24		<b>682,-</b>
VFD150CP43B-21	15	32		<b>901,-</b>
VFD185CP43B-21	18,5	38		<b>1 115,-</b>
VFD220CP43A-21	22	45		<b>1 258,-</b>
DOP-103DQ	Programming panel HMI 4.3", 65536 TFT. USB client/Host. 2x COM (1 slot) Ethernet			<b>431,-</b>
CMC-EIP01*	Ethernet/IPO and modbus TCP card			<b>90,-</b>
EMC-R6AA	Extension card; 6 relay outputs			<b>55,20</b>
TD320009B <sup>1)</sup>	LP transducer 0-10 bar, 4-20 mA			<b>59,-</b>
TD320030B <sup>1)</sup>	HP transducer 0-30 bar, 4-20 mA			<b>59,-</b>

\* Until stock last

<sup>1)</sup> The usage of transducer with a different pressure range requires changing the settings in the controller

# COMPRESSOR UNITS



## AS compressor units with BITZER ECOLINE compressors

Type	Price [EUR] Condensing unit with crankcase	Dimensions [mm]			Weight [kg]	Connection diameter [mm]			
		A	B	C		Discharge	Suction	Receiver inlet	Liquid
AS-2EES-2Y/DVR500 <sup>1)</sup>	2 321,-	860	420	430	88	15	22	10	10
AS-2EES-3Y/DVR700 <sup>1)</sup>	2 420,-	860	420	550	93	15	22	12	12
AS-2DES-2Y/DVR500 <sup>1)</sup>	2 380,-	860	420	430	88	15	22	10	10
AS-2DES-3Y/DVR700 <sup>1)</sup>	2 396,-	860	420	550	94	15	22	12	12
AS-2CES-3Y/DVR700 <sup>1)</sup>	2 388,-	860	420	550	93	15	22	12	12
AS-2CES-4Y/DVR1100 <sup>1)</sup>	2 484,-	860	420	560	96	15	22	12	12
AS-4FES-3Y/DVR700 <sup>1)</sup>	2 510,-	860	420	550	106	15	22	12	12
AS-4FES-5Y/DVR1100	2 753,-	860	420	560	113	15	22	12	15
AS-4EES-4Y/DVR1100	2 522,-	860	420	560	111	15	28	12	12
AS-4EES-6Y/DVR1500	2 870,-	860	420	720	117	15	28	15	15
AS-4DES-5Y/DVR1100	3 077,-	860	420	560	113	22	28	12	15
AS-4DES-7Y/DVR1500	3 212,-	860	420	720	119	22	28	15	15
AS-4CES-6Y/DVR1500	3 318,-	860	420	720	121	22	28	15	15
AS-4CES-9Y/DVR1500	3 409,-	860	420	720	122	22	28	15	18
AS-4BES-9Y/DVR1500	3 719,-	860	420	720	122	22	28	15	18
AS-4TES-9Y/RHC15B	4 401,-	870	580	630	165	28	35	22	18
AS-4TES-12Y/RHC30B	4 613,-	890	580	700	187	28	35	28	22
AS-4PES-12Y/RHC30B	4 811,-	890	580	700	185	28	35	28	18
AS-4PES-15Y/RHC30B	4 886,-	910	590	700	188	28	42	28	22
AS-4NES-14Y/RHC30B	5 216,-	890	580	700	187	28	35	28	22
AS-4NES-20Y/RHC30B	5 426,-	910	590	700	197	28	42	28	22
AS-4JE-15Y/RHC30B <sup>1)</sup>	5 901,-	890	560	770	229	28	42	28	22
AS-4JE-22Y/RHC30B	6 143,-	890	560	770	240	28	42	28	22
AS-4HE-18Y/RHC30B	5 913,-	890	560	770	233	28	42	28	22
AS-4HE-25Y/RHC45B	6 536,-	1310	560	770	268	28	54	28	28
AS-4GE-23Y/RHC30B	6 486,-	890	560	770	243	28	54	28	22
AS-4GE-30Y/RHC45B	7 084,-	1310	560	770	271	28	54	28	28
AS-4FE-28Y/RHC45B	7 060,-	1310	560	770	272	28	54	28	28
AS-4FE-35Y/RHC45B <sup>1)</sup>	7 329,-	1310	590	770	274	28	54	28	28
AS-4FE-35Y/RHC60B	7 392,-	1270	610	870	290	28	54	35	28
AS-6HE-28Y/RHC45B	7 594,-	1310	590	770	292	35	54	28	28
AS-6HE-35Y/RHC60B <sup>1)</sup>	8 576,-	1200	610	870	320	35	54	35	35

# COMPRESSOR UNITS

## AS compressor units with BITZER ECOLINE - continuation

Type	Price [EUR] Condensing unit with crankcase	Dimensions [mm]			Weight [kg]	Connection diameter [mm]			
		A	B	C		Discharge	Suction	Receiver inlet	Liquid
AS-6GE-34Y/RHC45B	<b>8 471,-</b>	1310	590	770	296	35	54	28	28
AS-6GE-40Y/RHC60B	<b>9 043,-</b>	1200	610	870	322	35	54	35	35
AS-6FE-44Y/RHC60B	<b>10 106,-</b>	1200	580	870	323	42	54	35	35
AS-6FE-50Y/RHC60B	<b>10 286,-</b>	1220	610	870	326	42	54	35	35

<sup>1)</sup> One week delivery time

### Equipment

- Compressor charged with ester oil BSE32, with crankcase heater
- Liquid receiver with shut-off valve at outlet, shut-off valve at inlet only for RHC
- Vibration eliminator in discharge line
- Filter drier
- Sight glass
- Shut-off valve in the liquid line (only for units with RHC receivers)

Sample code for units: AN-AS-2EES-2Y/DVR500-M

# CONDENSING UNITS

## TAURUS condensing units with BITZER ECOLINE compressors

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]			Price [EUR]	
							Standard	Optional equipment
	+5/+27	-5/+27	-25/+27	+5/+27	-5/+27	-25/+27	Condensing unit with crankcase heater	Housing <sup>1)</sup>  Set of capillary hoses for pressure switches <sup>2)</sup>
AA-BK-33/2KES-05Y	3,52	2,57	1,12	3,26	2,31	0,9	<b>1 936,-</b>	487,- BKA
AA-BK-33/2JES-07Y	4,38	3,26	1,51	4,02	2,86	1,2	<b>1 950,-</b>	487,- BKA
AA-BK-44/2HES-1Y	-	4,19	1,95	-	3,88	1,57	<b>2 042,-</b>	487,- BKA
AA-BK-44/2HES-2Y	5,75	4,28	1,99	5,49	3,88	1,57	<b>2 064,-</b>	487,- BKA
AA-BK-44/2GES-2Y	6,28	4,73	2,27	6,18	4,42	1,82	<b>2 064,-</b>	487,- BKA
AA-BK-44/2FES-2Y	-	5,5	2,71	-	5,28	2,26	<b>2 108,-</b>	487,- BKA
AA-BK-44/2FES-3Y	7,12	5,49	2,7	7,26	5,28	2,27	<b>2 161,-</b>	487,- BKA
AA-BK-53/2FES-3Y	7,75	5,85	2,84	7,62	5,28	2,27	<b>2 284,-</b>	700,- BKB
AA-BK-44/2EES-2Y	-	6,58	3,35	-	6,31	2,79	<b>2 551,-</b>	487,- BKA
AA-BK-53/2EES-2Y	-	6,86	3,34	-	6,59	2,87	<b>2 676,-</b>	700,- BKB
AA-BK-64/2EES-3Y	10,94	8,09	3,75	10,87	7,58	3,1	<b>3 047,-</b>	700,- BKB
AA-BK-53/2DES-2Y	-	7,91	4,06	-	7,47	3,37	<b>2 736,-</b>	700,- BKB
AA-BK-64/2DES-3Y	12,43	9,32	4,43	12,58	8,84	3,7	<b>3 055,-</b>	700,- BKB
AA-BK-64/2CES-3Y	-	10,9	5,38	-	10,55	4,53	<b>3 047,-</b>	700,- BKB

# CONDENSING UNITS



## TAURUS condensing units with BITZER ECOLINE compressors – continued

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]			Price [EUR]		
	+5/+27	-5/+27	-25/+27	+5/+27	-5/+27	-25/+27	Standard	Optional equipment	
							Condensing unit with crankcase heater	Housing <sup>1)</sup>	Set of capillary hoses for pressure switches <sup>2)</sup>
AA-BK-84/2CES-4Y	15,78	11,77	5,6	15,52	10,95	4,66	<b>3 360,-</b>	700,-	BKB
AA-BK-64/4FES-3Y	-	11,56	5,65	-	11,41	4,9	<b>3 174,-</b>	700,-	BKB
AA-BK-84/4FES-5Y	16,93	12,57	5,89	16,83	11,89	5,05	<b>3 596,-</b>	700,-	BKB
AA-BK-64/4EES-4Y	-	13,56	6,89	-	13,64	5,96	<b>3 215,-</b>	700,-	BKB
AA-BK-84/4EES-6Y	19,83	14,95	7,15	20,07	14,32	6,17	<b>3 719,-</b>	700,-	BKB
AA-BK-104/4EES-6Y	21,4	15,8	7,36	21,51	15,16	6,41	<b>4 388,-</b>	1 462,-	BKC
AA-BK-84/4DES-5Y	-	17,1	8,45	-	16,29	7,07	<b>3 916,-</b>	700,-	BKB
AA-BK-104/4DES-7Y	24,4	18,28	8,76	24,51	17,39	7,41	<b>4 711,-</b>	1 462,-	BKC
AA-BK-114/4DES-7Y	25,4	18,86	8,94	25,34	17,81	7,48	<b>5 016,-</b>	1 529,-	BKC
AA-BK-84/4CES-6Y	-	19,5	9,79	-	19,13	8,6	<b>4 139,-</b>	700,-	BKD
AA-BK-104/4CES-6Y	-	20,8	10,09	-	20,6	9,03	<b>4 819,-</b>	1 462,-	BKC
AA-BK-114/4CES-9Y	29,2	21,8	10,45	29,79	21,21	9,17	<b>5 220,-</b>	1 529,-	BKC
AA-BK-124/4CES-9Y	31,2	23	10,77	30,87	21,88	9,39	<b>5 770,-</b>	1 681,-	BKD
AA-BK-104/4BES-9Y	-	23,35	11,28	-	22,07	9,77	<b>5 215,-</b>	1 462,-	BKC
AA-BK-104/4TES-9Y	-	24,5	12,2	-	24,59	10,78	<b>5 660,-</b>	1 462,-	BKC
AA-BK-124/4BES-9Y	-	25,28	11,83	-	23,57	10,17	<b>6 052,-</b>	1 681,-	BKD
AA-BK-114/4TES-9Y	-	25,8	12,54	-	25,59	10,99	<b>5 969,-</b>	1 529,-	BKC
AA-BK-124/4TES-12Y	37	27,6	12,99	37,26	26,52	11,31	<b>6 682,-</b>	1 681,-	BKD
AA-BK-114/4PES-12Y	-	28,1	13,7	-	28,25	12,02	<b>6 275,-</b>	1 529,-	BKC
AA-BK-135/4PES-15Y	45,9	33,5	15,06	45,09	31,51	12,82	<b>7 591,-</b>	1 643,-	BKD
AA-BK-124/4NES-14Y	-	34,2	16,8	-	33,64	14,78	<b>7 273,-</b>	1 681,-	BKD
AA-BK-135/4NES-14Y	-	38,4	17,9	-	36,55	15,43	<b>7 889,-</b>	1 643,-	BKD
AA-BK-135/4NES-20Y	51,8	38,4	17,94	51,57	36,56	15,51	<b>8 137,-</b>	1 643,-	BKD
AA-BK-135/4JE-15Y	-	42,50	20,70	-	40,98	18,03	<b>8 470,-</b>	1 643,-	BKD
AA-BK-135/4HE-18Y	-	47,40	23,80	-	46,28	20,96	<b>8 482,-</b>	1 643,-	BKD
AA-BK-135/4HE-25Y	61,10	47,00	23,30	62,35	45,59	20,46	<b>8 722,-</b>	1 643,-	BKD
AA-BK-135/4GE-23Y	-	52,00	27,10	-	51,54	24,13	<b>9 047,-</b>	1 643,-	BKD
AA-BK-135/4FE-28Y	-	56,60	30,40	-	58,17	28,11	<b>9 239,-</b>	1 643,-	BKD
AA-BK-135/6HE-28Y	-	62,43	32,30	-	60,98	29,03	<b>9 734,-</b>	1 643,-	BKD

<sup>1)</sup> Housing available in stock; housing mounted on the unit - one week delivery time

<sup>2)</sup> Set of capillary tubes 2 pcs, each with angle and straight connection

BKA - **39,-** EUR

BKC - **41,20** EUR

BKB - **40,80** EUR

BKD - **41,60** EUR

Sample code for units: AN-AA-BK-84/2CES-4Y-M

Sample set code: AN-AA-ZK-BKC-M

### Optional equipment

1 x complete capacity control (delivery time 1 week)

- **268,-** EUR

OLC-K1 for AA-BK-64/4FES - AA-BK-135/4NES

- **157,-** EUR

MP54 / DeltaP II for AA-BK-135/4JE - AA-BK-135/6HE

- **183,- / 157,-** EUR

# CONDENSING UNITS

## HOUSING FOR CONDENSING UNITS <sup>1)</sup>

Code	Description	Price [EUR]
AN-AA-OB-33-M	Housing for condensing unit AA-BK-33..	<b>487,-</b>
AN-AA-OB-44-M	Housing for condensing unit AA-BK-44..	<b>487,-</b>
AN-AA-OB-53-M	Housing for condensing unit AA-BK-53..	<b>700,-</b>
AN-AA-OB-64-M	Housing for condensing unit AA-BK-64..	<b>700,-</b>
AN-AA-OB-84-M	Housing for condensing unit AA-BK-84..	<b>700,-</b>
AN-AA-OB-104-M	Housing for condensing unit AA-BK-104..	<b>1 462,-</b>
AN-AA-OB-114-M	Housing for condensing unit AA-BK-114..	<b>1 529,-</b>
AN-AA-OB-124-M	Housing for condensing unit AA-BK-124..	<b>1 681,-</b>
AN-AA-OB-135-M	Housing for condensing unit AA-BK-135..	<b>1 643,-</b>

<sup>1)</sup> Housing available in stock; housing mounted on the unit - one week delivery time



## TAURUS condensing units with BITZER ECOLINE compressors and air-cooled condensers Roen Est <sup>2)</sup>

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]			Price [EUR]
	+5/+27	-5/+27	-25/+27	+5/+27	-5/+27	-25/+27	Standard
							Condensing unit with crankcase heater
AA-BK-R076/4HE-25Y	70,6	52,5	24,8	67,7	49,1	21,7	<b>11 807,-</b>
AA-BK-R090/4GE-30Y	81,4	60,6	28,7	78,1	56,7	25,1	<b>12 961,-</b>
AA-BK-R098/4FE-35Y	94	70,9	34,6	90,6	66,7	30,4	<b>13 654,-</b>
AA-BK-R076/4FE-28Y	-	66,9	33,8	-	63,4	29,9	<b>12 436,-</b>
AA-BK-R076/6HE-28Y	-	70,8	35,4	-	66,7	31,1	<b>13 011,-</b>
AA-BK-R113/6HE-35Y	103,6	77	36,5	99,3	72	31,9	<b>15 219,-</b>
AA-BK-R076/6GE-34Y	-	77,9	40,9	-	74,2	36,4	<b>13 876,-</b>
AA-BK-R126/6GE-40Y	116,6	87,3	41,8	112	81,8	36,7	<b>16 220,-</b>
AA-BK-R090/6FE-44Y	-	93,1	48,7	-	88,7	43,2	<b>15 851,-</b>
AA-BK-R140/6FE-50Y	137,5	104	50,6	132,5	97,8	44,5	<b>18 186,-</b>

<sup>2)</sup> Condensing units, delivery time 2 weeks

### Basic options (other - please contact sales department):

1 x complete capacity regulation - **268,-** EUR

Set of capillary hoses 2 pcs, each with angle and straight connection

MP54 / DeltaP II  
BKD

- **183,- / 157,-** EUR

- **41,60** EUR



# CONDENSING UNITS

## TAURUS condensing units with BITZER two-stage compressors <sup>1)</sup>

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]		Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]		Price [EUR]	
	-30/+27	-40/+27	-30/+27	-40/+27	Standard	Option
					Condensing unit with crankcase heater and subcooler	Set of capillary hoses for pressure switches <sup>2)</sup>
AA-BK-104/S4T-5.2Y	7,53	5,12	6,17	4,01	<b>8 987,-</b>	BKC
AA-BK-104/S4N-8.2Y	10,58	7,22	8,65	5,67	<b>9 413,-</b>	BKC
AA-BK-124/S4G-12.2Y	16,36	11,64	13,04	8,51	<b>11 560,-</b>	BKD
AA-BK-135/S6J-16.2Y	23,04	16,46	19,58	12,79	<b>13 735,-</b>	BKD
AA-BK-135/S6H-20.2Y	26,43	18,93	22,47	14,68	<b>13 925,-</b>	BKD
AA-BK-135/S6G-25.2Y	29,93	21,52	25,54	16,68	<b>14 850,-</b>	BKD
AA-BK-R066/S6G-25.2Y	30,31	21,76	26,00	17,00	<b>16 325,-</b>	BKD
AA-BK-R066/S6F-30.2Y	35,70	25,68	30,72	20,08	<b>17 853,-</b>	BKD

<sup>1)</sup> Condensing units, delivery time 2-3 weeks

### Basic options (other - please contact sales department):

MP54 / DeltaP II - **179,- / 162,-** EUR

Discharge temperature sensor - **103,-** EUR

<sup>2)</sup> Set of capillary tubes 2 pcs, each with angle and straight connection

BKC - **41,20** EUR

BKD - **41,60** EUR

## Condensing units with MANEUROP compressors

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]			Liquid receiver volume [l]	Set of capillary hoses for pressure switches	Price [EUR]
	+5/+27	-5/+27	-25/+27	+5/+27	-5/+27	-25/+27			Cond. unit with crankcase heater
AA-MKN/MTZ-28 <sup>3)</sup>	6,84	4,96	1,99	6,46	4,44	1,75	3,0	MKA	<b>1 504,-</b>
AA-MKN/MTZ-36 <sup>3)</sup>	8,16	6,20	2,74	7,91	5,62	2,18	5,0	MKB	<b>1 672,-</b>
AA-MKN/MTZ-50 <sup>3)</sup>	13,09	9,40	3,88	12,44	8,41	2,95	7,0	MKB	<b>2 125,-</b>
AA-MKN/MTZ-64 <sup>3)</sup>	16,53	11,91	4,95	15,53	10,63	3,86	7,0	MKB	<b>2 324,-</b>
AA-MKN/MTZ-80 <sup>3)</sup>	21,37	15,63	6,80	20,05	13,99	5,48	7,0	MKC	<b>2 947,-</b>
AA-MKN/MTZ-100 <sup>3) 4)</sup>	25,73	18,60	7,52	23,78	16,34	5,91	12,5	MKC	<b>3 478,-</b>

<sup>3)</sup> Compressors charged with oil type 175PZ

<sup>4)</sup> Condensing units on request, delivery time: 5 days

### Optional equipment

Set of capillary hoses (2 pcs) for pressure switches in a separate package. Each with a straight and angular connection:

MKA - **37,60** EUR

MKB - **37,60** EUR

MKC - **35,80** EUR

MKD - **40,80** EUR

Sample code for units: AN-AA-MKN/MTZ-28-M

Sample code for capillary set: AN-AA-ZK-MKB-M

# CONDENSING UNITS



## TECUMSEH MT SILENSYS condensing units

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]			Power supply [V/f/Hz]	Price [EUR]
	+5/+27	-5/+27	-10/+27	+5/+27	-5/+27	-10/+27		
AET-4460-ZHR	1,21	0,91	0,78	1,19	0,86	0,72	230/1/50	542,-
AET-4470-ZHR	1,84	1,32	1,10	1,74	1,22	1,00	230/1/50	558,-
CAJN-9480-ZMHR	2,03	1,44	1,19	1,93	1,33	1,08	230/1/50	674,-
CAJN-9510-ZMHR	2,36	1,70	1,42	2,27	1,58	1,29	230/1/50	715,-
CAJN-9513-ZMHR	2,81	2,07	1,73	2,73	1,92	1,57	230/1/50	773,-
CAJN-4517-ZHR	3,68	2,64	2,19	3,49	2,42	1,98	230/1/50	913,-
TAJN-4517-ZHR	3,79	2,70	2,23	3,58	2,47	2,00	400/3/50	893,-
TAJN-4519-ZHR	4,41	3,24	2,72	4,22	2,99	2,46	400/3/50	995,-
FHT-4524-ZHR-XG	5,82	4,12	3,36	5,51	3,76	3,01	400/3/50	1 524,-
FHT-4532-ZHR-XG	7,14	5,34	4,27	6,86	4,82	3,92	400/3/50	1 653,-
TAGT-4546-ZHR	12,12	8,26	6,61	11,34	7,36	5,72	400/3/50	2 123,-



## TECUMSEH LT SILENSYS condensing units



Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]			Power supply [V/f/Hz]	Price [EUR]
	-20/+27	-25/+27	-30/+27	-20/+27	-25/+27	-30/+27		
CAJN-2464-ZBR	1,54	1,25	0,99	1,39	1,09	0,83	230/1/50	757,-
FHT-2480-ZBR-XG	2,48	2,01	1,59	2,16	1,69	1,27	400/3/50	1 339,-
FHT-2511-ZBR-XG	4,37	3,53	2,75	3,81	2,92	2,15	400/3/50	1 373,-



\* Until stock last



# CONDENSING UNITS



## TECUMSEH SILENSYS MT condensing units

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]			Power supply [V/f/Hz]	Price [EUR]
	+5/+27	-5/+27	-10/+27	+5/+27	-5/+27	-10/+27		
SILAJ-9510-ZFZ	2,97	2,07	1,69	2,77	1,88	1,52	230/1/50	<b>1 823,-</b>
SILAJ-9513-ZFZ	3,61	2,54	2,09	3,52	2,38	1,91	230/1/50	<b>1 919,-</b>
SILAJ-4517-ZTZ	3,94	2,76	2,27	3,72	2,53	2,03	400/3/50	<b>2 011,-</b>
SILAJ-4519-ZTZ	4,70	3,35	2,77	4,47	3,08	2,51	400/3/50	<b>2 192,-</b>
SILFH-4532-Z-XG	7,33	5,38	4,50	6,91	4,84	3,95	400/3/50	<b>2 672,-</b>



## TECUMSEH SILENSYS LT condensing units

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporation/ambient temperature [°C]			Power supply [V/f/Hz]	Price [EUR]
	-20/+27	-25/+27	-30/+27	-20/+27	-25/+27	-30/+27		
SILAJ-2464-ZFZ	1,86	1,48	1,15	1,65	1,27	0,96	230/1/50	<b>1 979,-</b>
SILFH-2480-Z-XG <sup>1)</sup>	2,56	2,05	1,60	2,22	1,71	1,27	400/3/50	<b>2 317,-</b>
SILFH-2511-Z-XG	3,52	2,77	2,12	3,15	2,40	1,77	400/3/50	<b>2 511,-</b>



<sup>1)</sup> Condensing units with 1 week delivery time

# CONDENSING UNITS

## Condensing units with frequency inverter (regulation from 30 to 80Hz with Bitzer compressor)

Condensing unit <sup>1)</sup>	Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at evaporating/condensing temperature [°C]								Condensing unit	Options			
	-10/+27				-35/+27					Fan for compressor cooling <sup>2)</sup>	Sound insulation (mat)	Additional control panel, mounted	Vibration isolators (4 pcs.)
Code	[30Hz]	[50Hz]	[70Hz]	[80Hz]	[30Hz]	[50Hz]	[70Hz]	[80Hz]	Price [EUR]				
MM2-BK-D23YV	4,42	7,51	10,01	11,17	1,20	2,04	2,83	3,23	<b>7 355,-</b>	266,-	130,-	560,-	182,-
MM2-BK-C24YV	5,53	9,16	12,35	13,69	1,55	2,68	3,72	4,25	<b>7 415,-</b>	266,-	130,-	560,-	182,-
MM2-BK-F45YH	6,18	10,30	13,46	15,20	1,68	2,90	3,95	4,46	<b>7 846,-</b>	266,-	135,-	560,-	182,-
MM2-BK-E46YH	7,64	12,24	15,94	17,46	2,13	3,54	4,87	5,49	<b>8 022,-</b>	266,-	135,-	560,-	182,-
MM2-BK-D47YH	8,71	15,07	19,69	21,46	2,42	4,18	5,57	6,22	<b>8 993,-</b>	266,-	135,-	560,-	182,-
MM2-BK-C49YH	11,22	18,85	23,40	26,05	3,11	5,27	7,32	8,21	<b>9 447,-</b>	266,-	135,-	560,-	182,-
MM2-BK-B49YH	12,33	20,70	24,90	27,80	3,41	5,78	8,02	9,07	<b>9 740,-</b>	266,-	135,-	560,-	182,-
MM2-BK-V410YH	11,53	18,68	24,20	26,74	2,96	5,11	6,76	7,73	<b>10 674,-</b>	234,-	155,-	560,-	182,-
MM2-BK-T412YH	13,75	21,90	28,50	31,43	3,72	6,43	8,55	9,77	<b>11 088,-</b>	234,-	155,-	560,-	182,-
MM2-BK-P415YH	15,78	24,90	31,80	35,31	3,99	6,90	9,11	10,41	<b>11 655,-</b>	234,-	155,-	560,-	182,-
MM2-BK-N420YH	19,47	31,90	40,20	45,94	5,14	8,82	11,74	12,85	<b>13 695,-</b>	234,-	155,-	560,-	182,-

<sup>1)</sup> Condensing units, delivery time 2 weeks

<sup>2)</sup> Recommended for low temperature application

# AIR-COOLED CONDENSERS

## ROEN EST air-cooled condensers



Code	Supplier code	Coil orientation	Fans q-ty x D [mm] / power consumption [W/pc.] / power supply	Capacity for R404A/R507 Ti = 25°C, Tc = 40°C		Capacity for R449A/R448A Ti = 25°C, Tc = 40°C		Price [EUR]		
				Δ [kW]	Υ [kW]	Δ [kW]	Υ [kW]	Coil	Surcharge for version H (legs)	Surcharge for version V (supports)
CLR-412-034N	CLR-412224	H / V	2 x 450/550/3	34	31	33	30	<b>2 154,-</b>	198,-	108,30
CLS-412-039N	CLS-412324	H / V	2 x 450/550/3	39	34	38	33	<b>2 258,-</b>	198,-	108,30
CLR-412-046N	CLR-412324	H / V	2 x 450/550/3	46	40	45	39	<b>2 435,-</b>	198,-	108,30
CLS-512-053N	CLS-512424	H / V	2 x 500/850/3	53	46	52	45	<b>2 718,-</b>	198,-	108,30
CLR-512-060N	CLR-512424	H / V	2 x 500/850/3	60	51	58	49	<b>2 944,-</b>	198,-	108,30
CLR-512-066N	CLR-512524	H / V	2 x 500/850/3	66	54	64	53	<b>3 226,-</b>	198,-	108,30
CLS-413-071N	CLS-413424	H / V	3 x 450/550/3	71	62	68	60	<b>3 593,-</b>	264,-	144,40
CLR-513-076N	CLR-513324	H / V	3 x 500/850/3	76	67	74	65	<b>3 684,-</b>	264,-	144,40
CHR-612-086L	CHR-612426	H / V	2 x 630/690/3	86	75	82	71	<b>4 093,-</b>	225,-	108,30
CLR-513-090N	CLR-513424	H / V	3 x 500/850/3	90	76	88	74	<b>4 075,-</b>	264,-	144,40
CLR-513-098N	CLR-513524	H / V	3 x 500/850/3	98	82	96	79	<b>4 463,-</b>	264,-	144,40
CHR-612-113N	CHR-612424	H / V	2 x 630/2000/3	113	99	109	96	<b>4 747,-</b>	225,-	108,30
CJR-613-125L	CJR-613326	H / V	3 x 630/690/3	125	113	119	107	<b>5 671,-</b>	300,-	144,40
CJR-612-126N	CJR-612424	H / V	2 x 630/2000/3	126	112	122	108	<b>5 226,-</b>	225,-	108,30
CJR-612-140N	CJR-612524	H / V	2 x 630/2000/3	140	121	136	117	<b>5 734,-</b>	225,-	108,30
CHR-613-169N	CHR-613424	H / V	3 x 630/2000/3	169	148	164	144	<b>6 682,-</b>	300,-	144,40
CJR-613-190N	CJR-613424	H / V	3 x 630/2000/3	190	168	184	163	<b>7 359,-</b>	300,-	144,40
CJR-613-210N	CJR-613524	H / V	3 x 630/2000/3	210	181	203	175	<b>8 066,-</b>	300,-	144,40
CJR-614-253N	CJR-614424	H / V	4 x 630/2000/3	253	224	245	217	<b>9 525,-</b>	375,-	180,50
CJR-614-280N	CJR-614524	H / V	4 x 630/2000/3	280	241	271	234	<b>10 428,-</b>	375,-	180,50

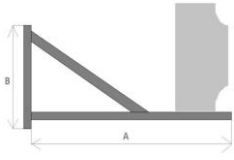
# COMPONENTS FOR CONDENSING UNITS SELF ASSEMBLY

## LH condenser coils

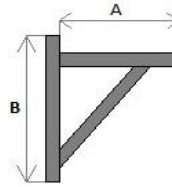
Condenser	Condenser coil			Designed for fans (q-ty x D [mm])	Price [EUR]	
	Galvanized (not painted)	Galvanized and painted			Condenser coil galvanized (not painted)	Coil painted
		Black	Green			
LH32	-	-	BSH-32-ZB*	1 x 350	-	107,-
LH33	BSH-33-B	-	BSH-33-ZB	1 x 350	177,-	195,-
LH44	BSH-44-B	BSH-44-CB	BSH-44-ZB	1 x 350	252,-	273,-
LH53	BSH-53-B	BSH-53-CB	BSH-53-ZB	1 x 350	275,-	295,-
LH64	BSH-64-B	BSH-64-CB	BSH-64-ZB	1 x 450	412,-	440,-
LH84	BSH-84-B	BSH-84-CB	BSH-84-ZB	1 x 450	596,-	633,-
LH104	BSH-104-B	BSH-104-CB	BSH-104-ZB	2 x 450	670,-	709,-
LH114	BSH-114-B	BSH-114-CB	BSH-114-ZB	2 x 450	824,-	868,-
LH124	BSH-124-B	BSH-124-CB	BSH-124-ZB	2 x 450	1 060,-	1 110,-
LH135	BSH-135-B	BSH-135-CB	BSH-135-ZB	2 x 500	1 480,-	1 543,-

\* Until stock last

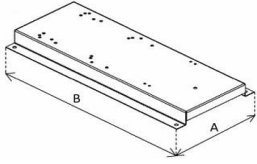
# SUPPORTS, BASE PLATES, FRAMES



TL-WSP-2.0-60-M  
TL-WSP-2.0-80-M



TL-WSP-2.0-48-M



AN-AA-P-PODST-S/Z-M

## STAINLESS STEEL SUPPORTS 304

made of closed steel profile 30 mm x 50 mm

Code	Dimensions [mm]		Maximum load [kg/pc.]	Price [EUR] pc.	Application
	A	B			
TL-WSP-2.0-48-M	480	500	75	<b>71,-</b>	Support for base plate AN-AA-P-PODST-S/Z-M and for units AS-2EES.. – AS-4CES..
TL-WSP-2.0-60-M	600	500	60	<b>71,-</b>	Support for condensers from LH33 to LH104
TL-WSP-2.0-80-M	800	500	65	<b>75,-</b>	Support for condensers from LH33 to LH135

## BASE PLATE FOR COMPRESSOR AND LIQUID RECEIVER

made of galvanized steel 2 mm, powder coated, colour green

Code	Dimensions [mm]		Maximum load [kg/pc.]	Price [EUR] pc.	Application
	A	B			
AN-AA-P-PODST-S/Z-M	336	750	120	<b>81,-</b>	For BITZER copressors CE1 - CE3 (up to 4CES) series, DORIN: H1 - H35 (up to H1003CC) and Tecnac receivers, up to DVR1500

## BASE PLATES AND FRAMES for condensing units

Code	Colour / Description	Price [EUR]
AN-AA-P-PODST-P-32-44-M	Green for LH 32; 33; 44	<b>124,-</b>
AN-AA-P-PODST-P-53-84-M	Green for LH 53; 64; 84	<b>202,-</b>
AN-AA-P-RAMA-104-M	Green for LH 104	<b>399,-</b>
AN-AA-P-RAMA-114-M	Green for LH 114	<b>504,-</b>
AN-AA-P-RAMA-124-135-M	Green for LH 124 - 135	<b>407,-</b>

## SUCTION FANS YWF WEIGUANG

Code	Motor			Fan			Price [EUR]
	Power [W] / Current [A]	Power supply	RPM	Diameter [mm]	Displacement [m³/h]	Weight [kg]	
YWF4E-250/50W-S	50 / 0,23	230V-1-50 Hz	1380	250	825	3,0	<b>51,50</b>
YWF4E-300/85W-S	85 / 0,42	230V-1-50 Hz	1380	300	1845	3,3	<b>57,20</b>
YWF4E-350/126W-S	126 / 0,65	230V-1-50 Hz	1420	350	2450	4,9	<b>72,90</b>
YWF4E-400/180W-S	180 / 0,82	230V-1-50 Hz	1380	400	3955	5,6	<b>78,70</b>
YWF4E-450/250W-S	250 / 1,15	230V-1-50 Hz	1350	450	5355	7,2	<b>88,70</b>
YWF4D-450/250W-S	250 / 0,55	400V-3-50 Hz	1350	450	5415	7,2	<b>87,20</b>
YWF4E-450/370W-S	370 / 1,70	230V-1-50 Hz	1360	450	5890	8,5	<b>106,-</b>
YWF4D-450/375W-S	375 / 0,77	400V-3-50 Hz	1360	450	5910	8,5	<b>100,-</b>
YWF4E-500/380W-S	380 / 1,85	230V-1-50 Hz	1320	500	7155	9,5	<b>112,-</b>
YWF4D-500/390W-S	390 / 0,99	400V-3-50 Hz	1370	500	7395	9,5	<b>106,-</b>
YWF4D-500/500W-S	500 / 1,10	400V-3-50 Hz	1370	500	8000	10,0	<b>126,-</b>
YWF4D-500/800W-S	800 / 1,50	400V-3-50 Hz	1320	500	9530	18,0	<b>159,-</b>
YWF4E-500/900W-S	900 / 4,15	230V-1-50 Hz	1325	500	9615	18,0	<b>166,-</b>
YWF4D-560/780W-S	780 / 1,62	400V-3-50 Hz	1350	560	8016	21,0	<b>165,-</b>
YWF4D-630/800W-S	800 / 1,60	400V-3-50 Hz	1320	630	12420	15,0	<b>165,-</b>
YWF4D-630/1900W-S	1900 / 3,35	400V-3-50 Hz	1380	630	17520	25,0	<b>343,-</b>

## BLOWING FANS YWF WEIGUANG

Code	Motor			Fan			Price [EUR]
	Power [W] / Current [A]	Power supply	RPM	Diameter [mm]	Displacement [m³/h]	Weight [kg]	
YWF4E-250/50W-B	50 / 0,23	230V-1-50 Hz	1380	250	825	3,0	<b>51,50</b>
YWF4E-300/85W-B	85 / 0,42	230V-1-50 Hz	1380	300	1845	3,3	<b>57,20</b>
YWF4E-350/126W-B	126 / 0,65	230V-1-50 Hz	1420	350	2450	4,9	<b>72,90</b>
YWF4E-400/180W-B	180 / 0,82	230V-1-50 Hz	1380	400	3955	5,6	<b>78,70</b>
YWF4E-450/250W-B	250 / 1,15	230V-1-50 Hz	1350	450	5365	7,2	<b>88,70</b>
YWF4E-500/380W-B	380 / 1,85	230V-1-50 Hz	1320	500	7155	9,5	<b>112,-</b>

## SUCTION FANS YWF - 920 RPM - "silent"

Code	Motor			Fan			Price [EUR]
	Power [W] / Current [A]	Power supply	RPM	Diameter [mm]	Displacement [m³/h]	Weight [kg]	
YWF6E-350/74W-S	74 / 0,37	230V-1-50 Hz	920	350	1615	5,6	<b>72,90</b>
YWF6E-450/110W-S	110 / 0,50	230V-1-50 Hz	875	450	3431	8,5	<b>88,70</b>
YWF6E-500/165W-S	165 / 1,15	230V-1-50 Hz	900	500	4830	10,4	<b>112,-</b>

## SUCTION FANS ZIEHL-ABEGG

Code	Motor			Fan			Price [EUR]
	Power [W] / Current [A]	Power supply	RPM	Diameter [mm]	Displacement [m³/h]	Weight [kg]	
FN030-4EK.WA.V7	90 / 0,39	230V-1-50 Hz	1290	300	2050	4,6	<b>162,-</b>
FN035-4EK.OF.V7P3	150 / 0,65	230V-1-50 Hz	1390	350	2875	5,3	<b>158,-</b>
FN040-4EK.OF.V7P1	240 / 1,05	230V-1-50 Hz	1340	400	3800	6,2	<b>215,-</b>
FN040-VDK.OF.V7P1	230 / 0,46	400V-3-50Hz	1360	400	3850	6,6	<b>291,-</b>
FN045-4EK.4I.V7P1	600 / 2,9	230V-1-50 Hz	1390	450	7150	13,0	<b>216,-</b>
FN045-VDK.4F.V7P1	540 / 1,1	400V-3-50Hz	1350	450	7150	11,0	<b>211,-</b>
FN050-4EK.4I.V7P1	720 / 3,2	230V-1-50 Hz	1240	500	8950	13,0	<b>285,-</b>
FN050-VDK.4I.V7P1	840 / 1,45	400V-3-50 Hz	1340	500	9450	13,0	<b>273,-</b>
FB056-VDK.4I.V4L	840 / 1,65	400V-3-50 Hz	1360	560	9600	12,3	<b>394,-</b>
FN056-VDK.4M.V7P2	1050 / 2,2	400V-3-50 Hz	1280	560	11400	15,4	<b>466,-</b>
FB063-VDK.4M.V4L	1100 / 2,2	400V-3-50 Hz	1300	630	12500	17,8	<b>596,-</b>
FN063-VDK.6N.V7P6	1550 / 2,6	400V-3-50 Hz	1300	630	16000	27,0	<b>648,-</b>
FN071-SDQ.6F.V7P1	940 / 1,7	400V-3-50Hz	900	710	14400	32,0	<b>865,-</b>
FN080-SDQ.6N.V7	1800 / 3,9	400V-3-50Hz	900	800	25050	51,0	<b>866,-</b>

## SUCTION FANS ZIEHL-ABEGG with flat guard

e.g. for Goedhart ERP 2015 air-coolers

Code	Motor			Fan			Price [EUR]
	Power [W] / Current [A]	Power supply	RPM	Diameter [mm]	Displacement [m³/h]	Weight [kg]	
FN045-VDI.4F.V7P1	540 / 1,1	400V-3-50 Hz	1280	450	5640	11,0	<b>357,-</b>
FN050-VDI.4I.V7P1	840 / 1,45	400V-3-50Hz	1340	500	9450	13,0	<b>458,-</b>
FN056-VDI.4I.V7P2	1150 / 2,1	400V-3-50 Hz	1290	560	11300	14,0	<b>326,-</b>
FN063-VDI.6K.V7P5	1500 / 2,7	400V-3-50Hz	1360	630	15950	24,8	<b>524,-</b>

## BLOWING FANS ZIEHL-ABEGG

Code	Motor			Fan			Price [EUR]
	Power [W] / Current [A]	Power supply	RPM	Diameter [mm]	Displacement [m³/h]	Weight [kg]	
FN040-VDW.OF.A7P1	230 / 0,46	400V-3-50 Hz	1360	400	3700	7,2	<b>225,-</b>
FN045-VDW.2F.A7P2	340 / 0,64	400V-3-50 Hz	1280	450	5630	6,3	<b>248,-</b>
FN050-VDW.4I.A7P1	840 / 1,45	400V-3-50 Hz	1340	500	9450	13,0	<b>321,-</b>
FN056-VDW.4M.A7P2	1050 / 2,2	400V-3-50 Hz	1280	560	11400	15,4	<b>621,-</b>
FN063-VDW.6K.A7P5	1500 / 2,7	400V-3-50 Hz	1360	630	13280	24,0	<b>672,-</b>

# FANS



## BLOWING FANS ZIEHL-ABEGG with flat guard

e.g. for Goedhart ERP 2015 air-coolers

Code	Motor			Fan			Price [EUR]
	Power [W] / Current [A]	Power supply	RPM	Diameter [mm]	Displacement [m <sup>3</sup> /h]	Weight [kg]	
FN045-VDD.4F.A7P1	540 / 1,10	400V-3-50 Hz	1350	450	7050	10,7	<b>357,-</b>
FN050-VDD.4I.A7P1	840 / 1,45	400V-3-50 Hz	1340	500	9150	13,4	<b>524,-</b>
FN056-VDD.4I.A7P2	1150 / 2,1	400V-3-50 Hz	1290	560	11300	14,0	<b>326,-</b>
FN063-VDD.6K.A7P5	1500 / 2,7	400V-3-50 Hz	1360	630	15950	25,2	<b>524,-</b>

## SUCTION FANS ZIEHL-ABEGG - 890 RPM - "silent"

Code	Motor			Fan			Price [EUR]
	Power [W] / Current [A]	Power supply	RPM	Diameter [mm]	Displacement [m <sup>3</sup> /h]	Weight [kg]	
FN045-SDK.4F.V7P1	180 / 0,49	400V-3-50 Hz	900	450	4740	11,0	<b>384,-</b>
FN050-6EK.4F.V7P3	270 / 1,3	230V-1-50 Hz	900	500	5850	10,6	<b>281,-</b>
FN050-SDK.4F.V7P1	290 / 0,74	400V-3-50 Hz	880	500	6150	12,0	<b>286,-</b>



## WEIGUANG electric motors for fans 220/240V-1-50 Hz

Code	Motor			Fan		Price [EUR]
	Power [W]	Power supply	RPM	Diameter [mm]	Weight [kg]	
SW-YZF-5-13	5	230V-1-50 Hz	1300	200	0,8	<b>14,30</b>
SW-YZF-10-20	10	230V-1-50 Hz	1300	230	1,1	<b>16,90</b>
SW-YZF-16-25	16	230V-1-50 Hz	1300	250	1,4	<b>18,60</b>
SW-YZF-18-30	18	230V-1-50 Hz	1300	250	1,5	<b>20,60</b>
SW-YZF-25-40	25	230V-1-50 Hz	1300	300	1,8	<b>24,30</b>
SW-YZF-34-45	34	230V-1-50 Hz	1300	300	2,0	<b>26,30</b>
SW-YCF-60-50	120	230V-1-50 Hz	1300	300	2,5	<b>38,60</b>



## WEIGUANG propellers

Code	Diameter [mm]	Air-flow direction	Price [EUR]
SMW-172-S	172	suction	<b>0,90</b>
SMW-200-S	200	suction	<b>1,-</b>
SMW-230-S	230	suction	<b>1,40</b>
SMW-250-S	250	suction	<b>1,60</b>
SMW-300-S	300	suction	<b>2,90</b>
SMW-350-S	350	suction	<b>6,90</b>
SMW-200-B	200	blowing	<b>1,-</b>
SMW-230-B	230	blowing	<b>1,40</b>
SMW-250-B	250	blowing	<b>1,60</b>
SMW-300-B	300	blowing	<b>2,90</b>

## WEIGUANG fan supports

Code	Type	Selection according to motor power	Price [EUR]
WSP-H72-5	H72-5	5W	<b>0,70</b>
WSP-H84-10/16	H84-10/16	10W / 16W	<b>0,90</b>
WSP-H109-1-18/25/34	H109-1-18/25/34	18W / 25W / 34W	<b>1,20</b>

## WEIGUANG fixing rings

Code	Diameter [mm]	Price [EUR]
RING-170	170	<b>3,40</b>
RING-200	200	<b>4,-</b>
RING-230	230	<b>4,40</b>
RING-250	250	<b>5,20</b>
RING-300	300	<b>8,-</b>

## WEIGUANG fan guards

Code	Type	Fan diameter [mm]	Price [EUR]
OSLW-170	OSLW - 170	170	<b>2,60</b>
OSLW-200	OSLW - 200	200	<b>2,90</b>
OSLW-230	OSLW - 230	230	<b>3,30</b>
OSLW-250	OSLW - 250	250	<b>4,60</b>
OSLW-300	OSLW - 300	300	<b>5,-</b>

# LIQUID RECEIVERS

## BITZER liquid receivers



Type		Volume [dm <sup>3</sup> ]	Price [EUR]						
			Standard execution			Optional equipment			
			Receiver	Sight glass	Outlet shut-off valve <sup>1)</sup>	Inlet shut-off valve	Lower fixing rails	Upper fixing rails	
Vertical	Horizontal								
FS-76		7,8	<b>143,-</b>	61,-	59,-	-	-	-	
FS-152		15	<b>330,-</b>	S	S	59,-	-	-	
	F152H	15	<b>297,-</b>	S	S	59,-	58,-	58,-	
	F192T	19	<b>368,-</b>	S	S	59,-	58,-	58,-	
	F202H	20	<b>352,-</b>	S	S	59,-	58,-	58,-	
FS-302		30	<b>484,-</b>	S	S	145,-	-	-	
	F302H	30	<b>417,-</b>	S	S	59,-	58,-	58,-	
	F392T	39	<b>579,-</b>	S	S	59,-	58,-	58,-	
FS-402		39	<b>535,-</b>	S	S	145,-	-	-	
	F402H	39	<b>469,-</b>	S	S	145,-	58,-	58,-	
	F552T	54	<b>597,-</b>	S	S	145,-	58,-	58,-	
FS-562		56	<b>834,-</b>	S	S	145,-	-	-	
	F562G	56	<b>876,-</b>	S	S	176,-	-	-	
FS-732		73	<b>938,-</b>	S	S	145,-	-	-	
FS-902		89	<b>965,-</b>	S	S	145,-	-	-	
	F1052T	105	<b>1 003,-</b>	S	S	145,-	58,-	58,-	
	F1602N	160	<b>1 423,-</b>	S	S	176,-	-	-	
FS-1602		160	<b>1 567,-</b>	S	S	176,-	-	-	
FS-2202		228	<b>2 116,-</b>	S	S	362,-	-	-	
	F2202N	228	<b>1 947,-</b>	S	S	362,-	-	-	
FS-3102		320	<b>2 307,-</b>	S	S	362,-	-	-	
	F3102N	320	<b>2 187,-</b>	S	S	362,-	-	-	

<sup>1)</sup> For receiver FS 76 – 2x sight glass and connection for safety valve  
 FS – vertical, F – horizontal, S – standard, G – larger connections (for chillers)  
 Sample code iZam: BU-FS-3102-M

## KRIWAN opto-electronic liquid level sensor min./max.



Code	Description	Price [EUR]
INT 276 LN	OLC-D1 - for horizontal and vertical Bitzer receivers, part number 347950-01 (gasket not included)	<b>214,-</b>
372200-04	Gasket for INT 276 LN	<b>6,-</b>

# LIQUID RECEIVERS

## TECNAC liquid receivers

**TECNAC**

Type		Volume [dm <sup>3</sup> ]	Connections (ODS)				Number of sight glasses szt.	Price [EUR]			
			inlet (in)		outlet (out)			Standard equipment	Standard options		
Vertical	Horizontal		[inch]	[mm]	[inch]	[mm]			Inlet shut- off valve	Outlet shut-off valve	Service valve
		3,0	3/8"	9,9	1/2"	12,8	0	<b>51,80</b>	-	+	-
		5,0	3/8"	9,9	1/2"	12,8	1	<b>84,10</b>	-	+	-
		7,0	1/2"	12,8	1/2"	12,8	1	<b>93,80</b>	-	+	-
		11,0	1/2"	12,8	1/2"	12,8	1	<b>115,-</b>	-	+	-
		14,0	7/8"	22,2	5/8"	16,2	1	<b>203,-</b>	-	+	-
		14,5	5/8"	16,2	7/8"	22,2	1	<b>138,-</b>	-	+	-
	RHC-15B	15,0	7/8"	22,2	5/8"	16,2	1	<b>315,-</b>	+	+	-
		18,0	7/8"	22,2	7/8"	22,2	1	<b>214,-</b>	-	+	-
		24,0	7/8"	22,2	7/8"	22,2	1	<b>239,-</b>	-	+	-
		30,0	1 1/8"	28,5	7/8"	22,2	1	<b>436,-</b>	+	+	-
	RHC-30B	30,0	1 1/8"	28,5	7/8"	22,2	1	<b>419,-</b>	+	+	-
		45,0	1 1/8"	28,5	1 1/8"	28,5	3	<b>585,-</b>	+	+	-
	RHC-45B	45,0	1 1/8"	28,5	1 1/8"	28,5	1	<b>573,-</b>	+	+	-
		60,0	1 3/8"	35,0	1 1/8"	28,5	3	<b>624,-</b>	+	+	-
	RHC-60B	60,0	1 3/8"	35,0	1 1/8"	28,5	1	<b>589,-</b>	+	+	-
		90,0	1 5/8"	41,4	1 3/8"	35,0	3	<b>777,-</b>	+	+	-
	RHC-90B	90,0	1 5/8"	41,4	1 3/8"	35,0	1	<b>860,-</b>	+	+	-
		120,0	2 1/8"	54,3	1 5/8"	41,4	3	<b>1 073,-</b>	+	+	-
		150,0	2 1/8"	54,3	1 5/8"	41,4	5	<b>1 106,-</b>	+	+	+
		180,0	2 1/8"	54,3	1 5/8"	41,4	2	<b>1 234,-</b>	+	+	+
		250,0	2 5/8"	66,7	2 1/8"	54,3	5	<b>2 253,-</b>	+	+	+
		350,0	3 1/8"	79,7	2 5/8"	66,7	5	<b>2 913,-</b>	+	+	+
		400,0	3 1/8"	79,7	2 5/8"	66,7	3	<b>3 295,-</b>	+	+	-
		500,0	3 1/8"	79,7	3 1/8"	79,9	5	<b>3 549,-</b>	+	+	+

Sample code: TC-ZS-RV-30-B-Z-M (vertical), TC-ZL-RHC-30-B-Z-M (horizontal), Z - green

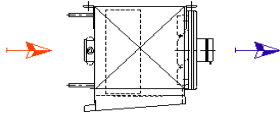
## KRIWAN opto-electronic min. liquid level sensor



Code	Description	Price [EUR]
INT275L	Opto-electronic min. liquid level sensor (for vertical receivers only)	<b>142,-</b>

# AIR-COOLERS

Goedhart®



Fin spacing 7 mm; tubes Ø12 mm  
Fin spacing 38 x 33 mm

## GOEDHART CCD air-coolers with electric defrost of coil and drip-tray

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	0°C (DT1=8K)	-18°C (DT1=7K)	0°C (DT1=8K)	-18°C (DT1=7K)				
CCD 31307 E	2,0	1,3	2,3	1,3	7	1 x 300 / 90 / 1	1 639	<b>1 065,-</b>
CCD 41307 E	2,7	2,0	3,3	2,4	9	1 x 300 / 90 / 1	1 581	<b>1 248,-</b>
CCD 32307 E	4,4	3,1	5,4	3,9	13	2 x 300 / 90 / 1	3 277	<b>1 552,-</b>
CCD 42307 E	5,3	4,1	6,6	4,8	17	2 x 300 / 90 / 1	3 157	<b>1 614,-</b>
CCD 62307 E	6,7	5,0	8,4	6,0	26	2 x 300 / 90 / 1	2 930	<b>1 812,-</b>
CCD 43307 E	7,9	5,8	9,8	6,9	26	3 x 300 / 90 / 1	4 736	<b>2 234,-</b>
CCD 42407 E	9,5	7,1	11,8	8,4	26	2 x 400 / 230 / 3	6 667	<b>2 476,-</b>
CCD 62407 E	12,3	9,1	15,4	11,1	39	2 x 400 / 230 / 3	6 163	<b>2 896,-</b>
CCD 43407 E	14,1	10,0	17,5	11,6	39	3 x 400 / 230 / 3	9 999	<b>3 226,-</b>
CCD 42457 E	16,7	10,0	19,3	10,8	46	2 x 450 / 540 / 3	12 753	<b>3 744,-</b>
CCD 63407 E	17,3	10,9	20,5	11,5	59	3 x 400 / 230 / 3	9 241	<b>3 885,-</b>
CCD 62457 E	22,1	14,9	27,6	16,1	70	2 x 450 / 540 / 3	12 026	<b>4 465,-</b>
CCD 43457 E	26,4	18,7	32,6	23,2	70	3 x 450 / 540 / 3	19 126	<b>4 973,-</b>
CCD 62507 E	27,8	19,8	34,7	24,8	78	2 x 500 / 840 / 3	15 359	<b>5 334,-</b>
CCD 63457 E	34,5	24,8	43,3	31,1	105	3 x 450 / 540 / 3	18 035	<b>6 306,-</b>
CCD 63507 E	41,6	29,7	52,1	37,1	117	3 x 500 / 840 / 3	23 032	<b>7 357,-</b>
CCD 83507 E	48,4	35,0	61,9	44,2	156	3 x 500 / 840 / 3	21 481	<b>8 322,-</b>
CCD 64507 E	53,5	33,9	66,5	36,6	156	4 x 500 / 840 / 3	30 707	<b>9 590,-</b>

# AIR-COOLERS

CO<sub>2</sub>



## ROLLER air cooler DLKT with electric defrost

Type	Cooling capacity Q <sub>o</sub> [kW] at inlet air temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	0°C (DT1=8K)	-18°C (DT1=7K)				
DLKT 713 EC COI 80 bar*	3,2	2,1	10,3	3 x 250 / 31 / 1	2 400	<b>1 686,-</b>



## ROLLER air cooler type FHVT with electric defrost

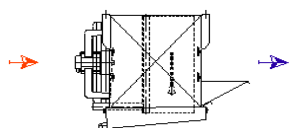
Type	Cooling capacity Q <sub>o</sub> [kW] at inlet air temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	0°C (DT1=8K)	-18°C (DT1=7K)				
FHVT 704 EC COI 80 bar*	6,6	4,9	20,2	4 x 254 / 31 / 1	4 200	<b>2 133,-</b>
FHVT 713 EC COI 80 bar*	7,4	5,5	20,2	3 x 300 / 60 / 1	4 800	<b>2 477,-</b>

\* Until stock last

**NOTE: Components for CO<sub>2</sub> installations can be found in a separate price list**

# AIR-COOLERS

Goedhart®

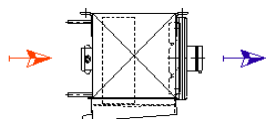


Fin spacing 7 mm; tubes Ø15 mm  
Fin spacing 50 x 50 mm

## GOEDHART VNS air coolers

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]	
	+3°C (DT1=8K)	+1°C (DT1=6K)	+3°C (DT1=8K)	+1°C (DT1=5K)				With electric coil defrost	With electric coil and drip-tray def.
VNS 64407 EB / E	21,8	15,0	25,4	18,1	143	4 x 400 / 230 / 3	13 182	6 854,-	7 062,-
VNS 65407 EB / E	25,2	18,7	35,4	22,6	178	5 x 400 / 230 / 3	16 476	8 020,-	8 255,-
VNS 63457 EB / E	27,4	18,9	31,8	22,8	163	3 x 450 / 540 / 3	18 234	7 282,-	7 490,-
VNS 66407 EB / E	32,4	21,8	43,7	24,9	214	6 x 400 / 230 / 3	19 769	9 174,-	9 445,-
VNS 64457 EB / E	37,0	25,3	48,7	30,4	217	4 x 450 / 540 / 3	24 310	9 139,-	9 376,-
VNS 65457 EB / E	46,5	31,7	57,3	38,0	271	5 x 450 / 540 / 3	30 384	10 914,-	11 189,-
VNS 66457 EB / E	52,9	38,2	73,2	45,9	325	6 x 450 / 540 / 3	36 457	12 751,-	13 066,-

Sample code: GU-VNS-63457-EB-M  
EB – air cooler with electric coil defrost  
E – air cooler with electric coil and drip tray defrost



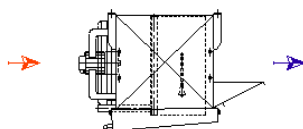
Fin spacing 6 mm; tubes Ø12 mm  
Fin spacing 49,5 x 49,5 mm

## ARKTON OMEGA ACP air coolers with electric defrost of coil and drip tray

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	+2°C (DT1=8K)	+2°C (DT1=6K)	+2°C (DT1=8K)	+2°C (DT1=6K)				
ACP 83356 E	10,0	7,0	12,5	8,8	67	3 x 350 / 175 / 1	6 510	3 099,-
ACP 84356 E	13,5	9,5	16,9	11,9	89	4 x 350 / 175 / 1	8 680	3 712,-
ACP 85356 E	16,9	11,9	21,1	14,8	112	5 x 350 / 175 / 1	10 850	4 584,-
ACP 83456 E	21,1	14,8	26,4	18,6	134	3 x 450 / 590 / 3	14 400	4 930,-
ACP 84456 E	28,6	20,1	35,7	25,1	178	4 x 450 / 590 / 3	19 200	6 192,-

Sample code: AN-C-ACP-83456-E-M

# AIR-COOLERS

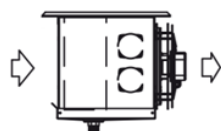


Fin spacing 6 mm; tubes Ø12 mm  
Fin spacing 49,5 x 49,5 mm

## ARKTON OMEGA ACPB air coolers with electric defrost of coil and drip tray

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	+2°C (DT1=8K)	+2°C (DT1=6K)	+2°C (DT1=8K)	+2°C (DT1=6K)				
ACPB 84356E	13,5	9,5	16,9	11,9	89	4 x 350 / 175 / 1	8 680	<b>3 786,-</b>
ACPB 85356E	16,9	11,9	21,1	14,8	112	5 x 350 / 175 / 1	10 850	<b>4 676,-</b>
ACPB 86356E	20,2	14,2	25,3	17,8	135	6 x 350 / 175 / 1	13 020	<b>5 425,-</b>
ACPB 83456E	21,1	14,8	26,4	18,6	134	3 x 450 / 590 / 3	14 400	<b>5 029,-</b>
ACPB 84456E	28,6	20,1	35,7	25,1	178	4 x 450 / 590 / 3	19 200	<b>6 315,-</b>
ACPB 85456E	35,8	25,1	44,7	31,4	222	5 x 450 / 590 / 3	24 000	<b>7 537,-</b>

Sample code: AN-C-ACPB-84356-E-M

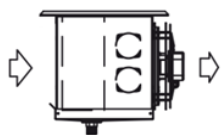


Fin spacing 6 mm

## ARKTON OMEGA ACC air coolers with electric defrost

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	0°C (DT1=8K)	-18°C (DT1=7K)	0°C (DT1=8K)	-18°C (DT1=7K)				
ACC-31306E	1,5	1,1	1,8	1,4	6,0	1 x 300 / 85 / 1	1 437	<b>572,-</b>
ACC-51306E	2,1	1,7	2,5	2,1	10,0	1 x 300 / 85 / 1	1 331	<b>641,-</b>
ACC-32306E	3,1	2,4	3,8	2,9	12,0	2 x 300 / 85 / 1	2 875	<b>813,-</b>
ACC-42306E	4,0	3,1	4,8	3,7	16,0	2 x 300 / 85 / 1	2 762	<b>870,-</b>
ACC-52306E	4,7	3,6	5,6	4,3	20,0	2 x 300 / 85 / 1	2 656	<b>924,-</b>
ACC-43306E	6,2	4,7	7,4	5,7	24,0	3 x 300 / 85 / 1	4 139	<b>1 138,-</b>
ACC-53306E	7,2	5,5	8,6	6,6	30,0	3 x 300 / 85 / 1	3 984	<b>1 225,-</b>

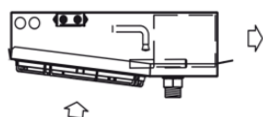
# AIR-COOLERS



Fin spacing 8 mm

## ARKTON OMEGA ACC air coolers with electric defrost and THERMOWAY TECC air coolers with electric defrost

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	0°C (DT1=8K)	-18°C (DT1=7K)	0°C (DT1=8K)	-18°C (DT1=7K)				
ACC-51308E	1,9	1,4	2,3	1,8	8,0	1 x 300/85/1	1 350	<b>641,-</b>
ACC-32308E	2,5	2,0	3,1	2,5	9,0	2 x 300 / 85 / 1	2 900	<b>813,-</b>
ACC-42308E	3,4	2,6	4,1	3,2	12,0	2 x 300 / 85 / 1	2 793	<b>870,-</b>
ACC-52308E	4,0	3,1	4,8	3,8	15,0	2 x 300 / 85 / 1	2 693	<b>924,-</b>
ACC-43308E	5,3	4,0	6,4	4,9	18,0	3 x 300 / 85 / 1	4 190	<b>1 138,-</b>
TEC C035.A12-D6-80-S1N	7,4	5,5	9,1	6,8	20,0	2 x 350 / 165 / 1	4 884	<b>1 048,-</b>



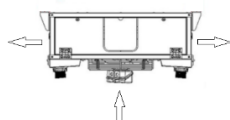
Fin spacing 7 mm

## ARKTON OMEGA ACS air coolers with electric defrost

Type	Cooling capacity Q <sub>o</sub> [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q <sub>o</sub> [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	t <sub>l1</sub> = +5°C (DT1=10K)	t <sub>l1</sub> = 0°C (DT1=8K)	t <sub>l1</sub> = +5°C (DT1=10K)	t <sub>l1</sub> = 0°C (DT1=8K)				
ACS-x1257E	1,6	1,1	1,9	1,4	5,0	1 x 250 / 65 / 1	749	<b>366,-</b>
ACS-x2257E	2,5	1,8	2,9	2,2	6,0	2 x 250 / 65 / 1	1 229	<b>463,-</b>
ACS-x3257E	3,4	2,6	3,9	3,2	8,0	3 x 250 / 65 / 1	1 781	<b>617,-</b>



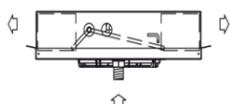
# AIR-COOLERS



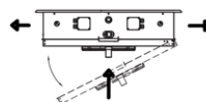
Fin spacing 6 mm

## THERMOWAY TECD air coolers with electric defrost

Type	Cooling capacity $Q_o$ [kW] for R404A/R507 at air inlet temperature		Cooling capacity $Q_o$ [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	$t_{L1}= +10^{\circ}\text{C}$ (DT1=10K)	$t_{L1}= +5^{\circ}\text{C}$ (DT1=8K)	$t_{L1}= +10^{\circ}\text{C}$ (DT1=10K)	$t_{L1}= +5^{\circ}\text{C}$ (DT1=8K)				
TEC D035.A12-D4-60-S1N	9,4	7,3	11,4	8,8	20	2 x 350 /165/1	5026	<b>1 132,-</b>
TEC D035.A12-D6-60-S1N	12,3	9,4	14,8	11,5	30	2 x 350 /165/1	4564	<b>1 404,-</b>
TEC D035.A13-D4-60-S1N	14,5	11,2	17,5	13,6	30	3 x 350 /165/1	7539	<b>1 564,-</b>
TEC D035.A13-D6-60-S1N	18,2	14,0	22,0	17,0	44	3 x 350 /165/1	6846	<b>1 867,-</b>
TEC D035.A14-D6-60-S1N	24,7	19,0	29,9	23,2	59	4 x 350 /165/1	9127	<b>2 351,-</b>
TEC D045.A13-J6-60-S3D	30,1	23,2	36,5	28,3	86	3 x 450/340/3	13960	<b>3 006,-</b>



ACD-x4236E

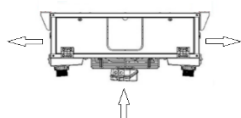


ACD-42356E - 64356E  
Fin spacing 6 mm

## ARKTON OMEGA ACD air coolers with electric defrost

Type	Cooling capacity $Q_o$ [kW] for R404A/R507 at air inlet temperature		Cooling capacity $Q_o$ [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	$t_{L1}= +10^{\circ}\text{C}$ (DT1=10K)	$t_{L1}= +5^{\circ}\text{C}$ (DT1=8K)	$t_{L1}= +10^{\circ}\text{C}$ (DT1=10K)	$t_{L1}= +5^{\circ}\text{C}$ (DT1=8K)				
ACD-x4236E	5,6	4,1	6,4	4,8	12	4 x 230 / 36 / 1	1560	<b>1 224,-</b>

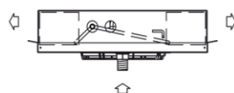
# AIR-COOLERS



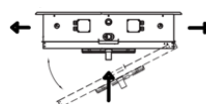
Fin spacing 4 mm

## THERMOWAY TECD air coolers (without electric defrost)

Type	Cooling capacity $Q_o$ [kW] for R404A/R507 at air inlet temperature		Cooling capacity $Q_o$ [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	$t_{l1}=+10^{\circ}\text{C}$ (DT1=10K)	$t_{l1}=+5^{\circ}\text{C}$ (DT1=8K)	$t_{l1}=+10^{\circ}\text{C}$ (DT1=10K)	$t_{l1}=+5^{\circ}\text{C}$ (DT1=8K)				
TEC D035.A12-D4-40-S1N	11,0	8,5	13,3	10,3	30	2 x 350 /165/1	4817	<b>1 039,-</b>
TEC D035.A12-D6-40-S1N	13,9	10,7	16,8	13,0	44	2 x 350 /165/1	4310	<b>1 249,-</b>
TEC D035.A13-D4-40-S1N	16,8	12,9	20,3	15,7	44	3 x 350 /165/1	7215	<b>1 448,-</b>
TEC D035.A13-D6-40-S1N	20,9	16,1	25,3	19,6	66	3 x 350 /165/1	6465	<b>1 752,-</b>
TEC D035.A14-D6-40-S1N	28,0	21,4	33,8	26,2	89	4 x 350 /165/1	8620	<b>2 262,-</b>



ACD-x4234 - 5234

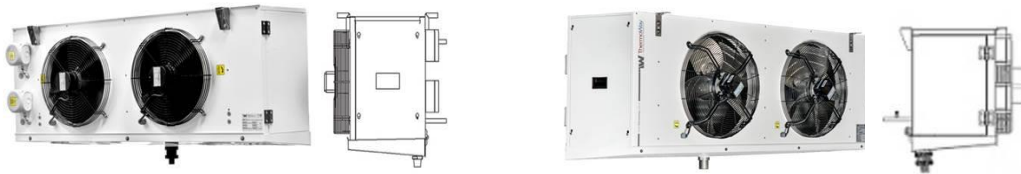


ACD-42354 - 64354  
Fin spacing 4 mm

## ARKTON OMEGA ACD air coolers (without electric defrost)

Type	Cooling capacity $Q_o$ [kW] for R404A/R507 at air inlet temperature		Cooling capacity $Q_o$ [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	$t_{l1}=+10^{\circ}\text{C}$ (DT1=10K)	$t_{l1}=+5^{\circ}\text{C}$ (DT1=8K)	$t_{l1}=+10^{\circ}\text{C}$ (DT1=10K)	$t_{l1}=+5^{\circ}\text{C}$ (DT1=8K)				
ACD-x3234	4,9	3,6	5,6	4,1	13	3 x 230 / 36 / 1	1116	<b>828,-</b>
ACD-x4234	6,6	4,8	7,5	5,6	18	4 x 230 / 36 / 1	1487	<b>1 008,-</b>
ACD-x5234	8,4	6,1	9,5	7,0	22	5 x 230 / 36 / 1	1859	<b>1 185,-</b>
ACD-42354	11,3	8,1	13,2	9,9	39	2 x 350 / 134 / 1	4471	<b>1 378,-</b>
ACD-62354	14,7	10,6	16,9	12,5	58	2 x 350 / 134 / 1	4247	<b>1 571,-</b>
ACD-43354	17,0	12,5	20,0	15,1	58	3 x 350 / 134 / 1	6706	<b>1 820,-</b>
ACD-63354	22,2	16,2	25,6	19,2	87	3 x 350 / 134 / 1	6375	<b>2 094,-</b>
ACD-64354	30,0	21,7	34,4	25,7	116	4 x 350 / 134 / 1	8500	<b>2 605,-</b>

# AIR-COOLERS



Fin spacing 10 mm

## THERMOWAY TECC air coolers with electric defrost, fan heaters and insulated drip tray

Type	Cooling capacity $Q_o$ [kW] for R404A/R507 at air inlet temperature	Cooling capacity $Q_o$ [kW] for R449A/R448A at air inlet temperature	Heat exchange surface [m <sup>2</sup> ]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m <sup>3</sup> /h]	Price [EUR]
	-18°C (DT1=7K)					
TEC C045.A12-J5-10-S3D	6,88	8,53	25,2	2 x 450 / 289 / 3	9870	<b>1 800,-</b>
TEC C045.A12-J6-10-S3D	8,25	10,23	30,3	2 x 450 / 289 / 3	9607	<b>1 935,-</b>
TEC C045.A12-J8-10-S3D	9,83	12,19	40,4	2 x 450 / 289 / 3	9119	<b>2 139,-</b>
TEC C050.A12-J8-10-S3D	14,88	18,45	55,3	2 x 500 / 644 / 3	14337	<b>2 954,-</b>
TEC C050.A13-J6-10-S3D	18,60	23,06	63,9	3 x 500 / 644 / 3	22780	<b>3 760,-</b>
TEC C050.A13-J8-10-S3D	22,68	28,12	85,1	3 x 500 / 644 / 3	21694	<b>4 286,-</b>
TEC C050.A14-J8-10-S3D	30,40	37,70	113,5	4 x 500 / 644 / 3	28925	<b>5 586,-</b>

## SWEP plate heat exchangers

Type	Mounting bolts	Evaporator R404A: to = +2°C water: tw = +12°C/+7°C * Fouling factor = 0,000043 m²K/W		Condenser R404A: tK = +40°C, ΔtD = 3K water: tw = +30°C/+35°C * Fouling factor = 0,000043 m²K/W		Connections		Distributor	Price [EUR]
		Q <sub>o</sub> [kW]	ΔP <sub>w</sub> [kPa]	Q <sub>o</sub> [kW]	ΔP <sub>w</sub> [kPa]	Primary side brazed [mm]	Secondary side brazed (l) threaded (g) [inch]		
B8TH x 10-45	-	2,1	5	1,8	5	3/4" (g) 16 (l)	3/4" (g) 16 (l)	-	137,-
B8TH x 20-45	-	5	8	4,1	5	3/4" (g) 16 (l)	3/4" (g) 16 (l)	-	164,-
B15TH x 20-31	+	8,7	35	-	-	12,8 / 16	3/4" (g)	-	227,-
B16H x 30-31	+	13,3	9	-	-	12,8 / 22	1" (g)	-	339,-
B80H x 20-31	-	14,5	31	-	-	12,8 / 22	1-1/4" (g) 28(l)	-	358,-
B80H x 30-31/28	+	22,6	34	-	-	16 / 35,1	1"1/4 (g)	-	411,-
B80H x 40-31/28	+	30,5	35	-	-	16 / 35,1	1"1/4 (g)	-	478,-
V80H x 40-42/37	+	35,1	45	-	-	16 / 35,1	1"1/2 (g)	+	543,-
V80H x 50-42/37	+	44,1	47	-	-	16 / 42	1"1/2 (g)	+	641,-
V80H x 60-42/37	+	52,2	47	-	-	16 / 42	1"1/2 (g)	+	723,-
V200TH x 50-44	+	85	40	-	-	28 / 54,3&60	2" (g)	+	1 644,-
V200TH x 60-44	+	102	41	-	-	28 / 54,3&60	2" (g)	+	1 827,-
V200TH x 70-44	+	120	43	-	-	28 / 54,3&60	2" (g)	+	2 011,-
B15TH x 20-45	+	-	-	9,6	43	22	3/4" (g) 16 (l)	-	227,-
B15TH x 30-45	+	-	-	15	50	22	3/4" (g) 16 (l)	-	276,-
B15TH x 40-45	+	-	-	20,5	57	22	3/4" (g) 16 (l)	-	326,-
B80H x 30-42/37	+	-	-	26,9	42	35,1	1"1/4 (g) 28 (l)	-	411,-
B80H x 40-42/37	+	-	-	36,7	45	35,1	1"1/4 (g) 28 (l)	-	479,-
B80H x 50-42/37	+	-	-	46,5	47	42	1"1/2 (g)	-	578,-
B80H x 60-42/37	+	-	-	56,5	50	42	1"1/2 (g)	-	645,-
B80H x 70-42/37	+	-	-	66,1	52	42	1"1/2 (g)	-	712,-
B80H x 80-42/37	+	-	-	75,9	55	42	1"1/2 (g)	-	779,-
B80H x 100-42/37	+	-	-	93,6	58	42	1"1/2 (g)	-	914,-
B200TH x 60-45/30	+	-	-	96	34	54,3&60	2"1/2 (g)	-	1 623,-
B200TH x 80-45/30	+	-	-	128,5	36	54,3&60	2"1/2 (g)	-	1 929,-
B200TH x 100-45/30	+	-	-	160	38	54,3&60	2"1/2 (g)	-	2 234,-
B200TH x 140-45/30	+	-	-	229	45	54,3&60	2"1/2 (g)	-	2 847,-
B16H x 20-31E	+	8,5	8	-	-	16 / 22	35,1 (l)	-	289,-
B16H x 24-31E	+	10,4	9	-	-	16 / 22	35,1 (l)	-	308,-
B16H x 30-31E	+	13,2	9	-	-	16 / 22	35,1 (l)	-	339,-
B16H x 40-31E	+	18	10	-	-	22 / 28	42 (l)	-	397,-
B16H x 44-31E	+	20	10	-	-	22 / 28	42 (l)	-	420,-

Sample code:

SP-B80HX40-42/37-M

# HEAT EXCHANGERS



## ALFA LAVAL plate heat exchangers

Type	Mounting bolts	Evaporator R404A: to = +2°C water: tw = +12°C/+7°C * Fouling factor = 0,000043 m²K/W		Condenser R404A: tK = +40°C, ΔtD = 3K water: tw = +30°C/+35°C * Fouling factor = 0,000043 m²K/W		Connections		Price [EUR]
		Q <sub>o</sub> [kW]	ΔP <sub>w</sub> [kPa]	Q <sub>o</sub> [kW]	ΔP <sub>w</sub> [kPa]	Primary side brazed [mm]	Secondary side brazed (l) threaded (g) [inch]	
AC-30EQ-40H-F	-	14	48	-	-	1/2"(12) (l) / 7/8"(22) (l)	1" (g)	255,-
AC-30EQ-60H-F	-	21	49	-	-	5/8"(15) (l) / 1.1/8"(28) (l)	1" (g)	329,-
AC-70X-50M-F	-	43	49	-	-	16,1 int. (22 ext.) (l) / 1.3/8"(35) (l)	1.1/4" (g)	664,-
AC220EQ-50AM-F	+	66	34	-	-	1.1/8" (28) (l) / 2.1/8" (54) (l)	2" (g)	1 112,-
AC220EQ-60AM-F	+	80	36	-	-	1.1/8" (28) (l) / 2.1/8" (54) (l)	2" (g)	1 253,-
AC220EQ-76AM-F	+	102	37	-	-	1.1/8" (28) (l) / 2.1/8" (54) (l)	2" (g)	1 478,-
AC220EQ-94AM-F	+	126	39	-	-	1.1/8" (28) (l) / 2.1/8" (54) (l)	2" (g)	1 760,-
CB30-10H-F	-	-	-	3,6	5,2	1.1/8" (28) (l)	1" (g)	151,-
CB30-14H-F	-	-	-	5,5	6,2	1.1/8" (28) (l)	1" (g)	166,-
CB30-20H-F	-	-	-	8,4	7,3	1.1/8" (28) (l)	1" (g)	189,-
CB30-30H-F	-	-	-	13,3	8,6	1.1/8" (28) (l)	1" (g)	228,-
CB30-40H-F	-	-	-	18	9,6	1.1/8" (28) (l)	1" (g)	266,-
CB60-30H-F	+	-	-	25	51	1.1/8" (28) (l)	1" (g)	312,-
CB60-40H-F	+	-	-	33	52	1.1/8" (28) (l)	1" (g)	374,-
CB60-50H-F	+	-	-	40	52	1.1/8" (28) (l)	1" (g)	435,-
CB60-60H-F	+	-	-	46	52	1.1/8" (28) (l)	1" (g)	497,-

# HEAT EXCHANGERS



## WTK plate heat exchangers

Type	Evaporator R404A: to = +2°C water: tw = +12°C/+7°C * Fouling factor = 0,000043 m²K/W		Condenser R404A: tK = +40°C, ΔtD = 3K water: tw = +30°C/+35°C * Fouling factor = 0,000043 m²K/W		Connections		Distributor EV	Price [EUR]
	Q <sub>o</sub> [kW]	ΔP <sub>w</sub> [kPa]	Q <sub>o</sub> [kW]	ΔP <sub>w</sub> [kPa]	Primary side brazed [mm]	Secondary side brazed (l) threaded (g) [inch]		
P7 – 10 EVF	5,1	15	-	-	22,2 / 35,2	1"1/4 (g)	-	272,-
P7 – 10 SF	-	-	10,6	47	35,2	1"1/4 (g)	-	272,-
P7 – 14 EVF	7,2	15	-	-	22,2 / 35,2	1"1/4 (g)	-	301,-
P7 – 14 SF	-	-	14,6	47	35,2	1"1/4 (g)	-	301,-
P7 – 20 EVF	10,7	17	-	-	22,2 / 35,2	1"1/4 (g)	-	345,-
P7 – 20 SF	-	-	22,1	52	35,2	1"1/4 (g)	-	345,-
P7 – 24 EVF	13	17	-	-	22,2 / 35,2	1"1/4 (g)	-	373,-
P7 – 24 SF	-	-	24,5	45	35,2	1"1/4 (g)	-	373,-
P7 – 30 EVF	16,6	18	-	-	22,2 / 35,2	1"1/4 (g)	-	418,-
P7 – 30 SF	-	-	29,6	43	35,2	1"1/4 (g)	-	418,-
P7 – 40 EVF	22	18	-	-	22,2 / 35,2	1"1/4 (g)	-	491,-
P7 – 40 SF	-	-	38,6	44	35,2	1"1/4 (g)	-	491,-
P7 – 50 EVF	27,4	19	-	-	22,2 / 35,2	1"1/4 (g)	-	565,-
P7 – 50 SF	-	-	48,3	47	35,2	1"1/4 (g)	-	565,-
P15 – 30 SF	-	-	65,7	50	54,2	2" (g)	-	957,-
P15 – 30 EVF	28,1	12	-	-	22,2 / 54,2	2" (g)	-	957,-
P15 – 40 SF	-	-	82,3	46	54,2	2" (g)	-	1 106,-
P15 – 40 EVF	36,8	12	-	-	22,2 / 54,2	2" (g)	-	1 106,-
P15 – 50 SF	-	-	97,2	43	54,2	2" (g)	-	1 256,-
P15 – 50 EVF	45,7	12	-	-	22,2 / 54,2	2" (g)	+	1 346,-
P15 – 60 EVF	54,6	12	-	-	22,2 / 54,2	2" (g)	+	1 497,-
P30 – 40EVF	72,4	9	-	-	35,2 / 76,2	2"1/2 (g)	-	2 461,-
P30 – 50 EVF	89,4	9	-	-	35,2 / 76,2	2"1/2 (g)	+	2 925,-
P30 – 60 EVF	106,5	10	-	-	35,2 / 76,2	2"1/2 (g)	+	3 269,-

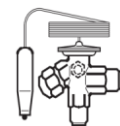
Sample code: TK-P15-40EVF-M

## WTK shell and tube heat exchangers, with welded feet and insulation 20 mm

Type	Evaporator R404A: to = +2°C water: tw = +12°C/+7°C * Fouling factor = 0,000086 m²K/W		Water flow		Connections		Price [EUR]
	Q <sub>o</sub> [kW]	[m³/h]	ΔP <sub>w</sub> [kPa]	Refrigerant side D [mm] in/out	Water side		
SCE 73 single circuit	62	10,6	40	22,5 / 42,4	2 1/2"	2 622,-	
SCE 103 single circuit	86	14,8	44	22,5 / 42,4	2 1/2"	2 881,-	
SCE 143 single circuit	120	20,6	35	35,3 / 54,4	3"	3 482,-	
DCE 163 double circuit	137	23,5	36	2x22,5/42,4	3"	3 711,-	
DCE 243 double circuit	205	35,2	35	2x35,3/54,4	114,3 mm	4 924,-	

Sample code: TK-SCE-103CA-I20-M

# EXPANSION VALVES



## CASTEL thermostatic expansion valve (without orifice and nut)

Code	Description				Price [EUR]
	Refrigerant	Equalization	Range	Connection type	
2220/4*	R134a	internal	-40°C ÷ +10°C	screw	36,-
2210/4*	R22 / R407C		-40°C ÷ +10°C		39,10
2220/4E*	R134a	external	-40°C ÷ +10°C		60,80
2210/4E*	R22 / R407C		-40°C ÷ +10°C		60,50
2230/M12S*	R404A / R507	internal	-40°C ÷ +10°C	for brazing	40,10
2230/M12SE*	R404A / R507	external	-40°C ÷ +10°C		60,50
2234/M12SE*	R404A / R507		-60°C ÷ -25°C		71,-



## CASTEL orifices for expansion valves

Code	Description	Price [EUR]
220X*	Orifice „X”	14,20
2200*	Orifice „0”	14,20
2201*	Orifice „1”	13,90
2202*	Orifice „2”	13,90
2203*	Orifice „3”	13,50
2204*	Orifice „4”	13,90
2205*	Orifice „5”	14,20
2206*	Orifice „6”	14,20
2200/S*	Orifice „0” for brazed connections	14,90
2201/S*	Orifice „1” for brazed connections	14,90
2202/S*	Orifice „2” for brazed connections	14,60
2203/S*	Orifice „3” for brazed connections	14,90
2204/S*	Orifice „4” for brazed connections	14,90

## CASTEL brazed connections

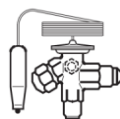
Code	Description	Price [EUR]
2271/2S*	Brazed connection 1/4" (6 mm)	13,50
2271/M10S*	Brazed connection (10 mm)	14,20

\* Until stock last

## Accessories for expansion valves

Code	Description	Price [EUR]
TZRI	Insulation for expansion valves	12,30

# EXPANSION VALVES



## DANFOSS thermostatic expansion valves without orifice and nut

Code	Description				Price [PLN]	
	Type	Refrigerant	Range			Connection type
068Z3403	TES 2	R404A/R507	N	-40°C ÷ +10°C	screw	377,-
068Z3400	TS 2	R404A / R507	N	-40°C ÷ +10°C		235,-
068Z3411*	TES 2 MOP	R404A/R507	B	-60°C ÷ -25°C		518,-
068Z3501	TEZ 2	R407C	N	-40°C ÷ +10°C		377,-
068Z3728	TE 2	R449A/R448A	N	-40°C ÷ +10°C		377,-
068Z3346	TN 2	R134a	N	-40°C ÷ +10°C		235,-
068Z3348	TEN 2	R134a	N	-40°C ÷ +10°C		377,-
068Z3422	TES 2	R404A/R507	N	-40°C ÷ +10°C		377,-
068Z3435	TS 2	R404A / R507	N	-40°C ÷ +10°C		235,-
068Z3713*	TE 2	R407F/R407A	N	-40°C ÷ +10°C		screw/brazed
068Z3809	TE 2	R452A	N	-40°C ÷ +10°C	377,-	
068Z3730	TE 2	R448A/R449A	N	-40°C ÷ +10°C	377,-	
068Z3386	TEN 2	R134a	N	-40°C ÷ +10°C	377,-	
068-2002	Orifice Nr 0X for TE 2/T2				87,90	
068-2003	Orifice Nr 0 for TE 2/T2				87,90	
068-2010	Orifice Nr 1 for TE 2/T2				87,90	
068-2015	Orifice Nr 2 for TE 2/T2				87,90	
068-2006	Orifice Nr 3 for TE 2/T2				87,90	
068-2007	Orifice Nr 4 for TE 2/T2				87,90	
068-2008	Orifice Nr 5 for TE 2/T2				87,90	
068-2009	Orifice Nr 6 for TE 2/T2				87,90	

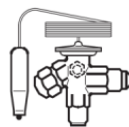
\* Until stock last

## DANFOSS thermostatic expansion valves TE 5

Code	Description			Price [PLN]
	Type	Refrigerant	Range	
067B3342	TES 5	R404A/R507	N -40°C ÷ +10°C	556,-
067B3358	TES 5 with MOP -10°C	R404A/R507	NL -40°C ÷ -15°C	556,-
067B3278	TEZ 5	R407C	N -40°C ÷ +10°C	556,-
067B3501*	TE 5	R407F/R407A	N -40°C ÷ +10°C	556,-
067B3252	TE 5	R448A/R449A	N -40°C ÷ +10°C	597,-
067B3297	TEN 5	R134a	N -40°C ÷ +10°C	556,-
067B4002	Valve body TE 5, for brazing, straight: 12x16 mm			211,-
067B4003	Valve body TE 5, for brazing, straight: 12x22 mm			211,-
067B4004	Valve body TE 5, for brazing, angle: 12x16 mm			211,-
067B4035	Valve body TE 5, for brazing, straight: 16x22 mm			211,-
067B4012	Valve body TE 5, for brazing, angle: 16x22 mm			211,-
067B4036	Valve body TE 5, for brazing, straight: 22x28 mm			211,-



# EXPANSION VALVES



## DANFOSS thermostatic expansion valves TE 5 – continued

Code	Description	Price [PLN]
067B2788	Orifice Nr 0.5 for TE 5 (8,7 kW) <sup>1)</sup>	219,-
067B2789	Orifice Nr 1 for TE 5 (14,6 kW) <sup>1)</sup>	219,-
067B2790	Orifice Nr 2 for TE 5 (20,1 kW) <sup>1)</sup>	219,-
067B2791	Orifice Nr 3 for TE 5 (26,3 kW) <sup>1)</sup>	219,-
067B2792	Orifice Nr 4 for TE 5 (34,6 kW) <sup>1)</sup>	240,-

<sup>1)</sup> Nominal capacity for R404A

\* Until stock last

## DANFOSS thermostatic expansion valves TE 12/20

Code	Description			Price [PLN]
	Type	Refrigerant	Range	
067B3347	TES 12	R404A/R507	N -40°C ÷ +10°C	600,-
067B3348*	TES 12 with MOP -10°C	R404A/R507	NL -40°C ÷ -15°C	600,-
067B3366	TEZ 12	R407C	N -40°C ÷ +10°C	600,-
067B3532*	TE 12	R407F/R407A	N -40°C ÷ +10°C	600,-
067B2512	TE 12	R448A/R449A	N -40°C ÷ +10°C	578,-
067B4018	Valve body TE 12, for brazing, straight: 16x22 mm			229,-
067B4017	Valve body TE 12/20, for brazing, angle: 22x28 mm			229,-
067B4016	Valve body TE 12/22, for brazing, straight: 22x28 mm			229,-
067B3352	TES 20	R404A	N -40°C ÷ +10°C	1 682,-
067B3294	TE 20	R448A;R449A	N -40°C ÷ +10°C	1 614,-
067B2708	Orifice Nr 5 for TE 12 (50,6 kW) <sup>1)</sup>			321,-
067B2709	Orifice Nr 6 for TE 12 (61,0 kW) <sup>1)</sup>			321,-
067B2710	Orifice Nr 7 for TE 12 (70,6 kW) <sup>1)</sup>			321,-
067B2771	Orifice Nr 8 for TE 20 (77,6 kW) <sup>1)</sup>			504,-
067B2773	Orifice Nr 9 for TE 20 (84,5 kW) <sup>1)</sup>			504,-

<sup>1)</sup> Nominal capacity for R404A

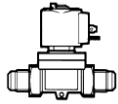
\* Until stock last

## ALCO thermostatic expansion valves

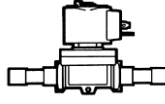


Code	Description			Price [PLN]
	Type	Refrigerant	Range	
XC726BW-2B	Thermostatic element	R448A/R449A	-45°C ÷ +30°C	249,-
XC726SW-2B	Thermostatic element	R404A/R507	-45°C ÷ +30°C	273,-
XC726NW-2B	Thermostatic element	R407C	-45°C ÷ +30°C	249,-
XC726SW-55-2B	Thermostatic element with MOP	R404A/R507	-45°C ÷ -10°C	273,-
9252	Valve body for XC726...2B, for brazing, straight: 22x22 mm			101,-
9153	Valve body for XC726...2B, for brazing, angle: 22x22 mm			72,40
X9117-B6B	Orifice Nr 6 for XC726...2B			186,-
X9117-B7B	Orifice Nr 7 for XC726...2B			186,-
X9117-B8B	Orifice Nr 8 for XC726...2B			186,-
X9117-B9B	Orifice Nr 9 for XC726...2B			186,-
X9166-B10B	Orifice Nr 10 for XC726...2B			260,-

# SOLENOID VALVES



EV... MM  
1020, 1064, 1070



EV... S  
1028, 1068, 1078, 1079

## SOLENOID VALVES with coil, without el. connector (GMC, Castel)

Code		Description/El. Connector		Type	Q <sub>ZN</sub> [kW]	Kv [m <sup>3</sup> /h]	Price [EUR]
EV32MMA6	GMC	1/4"	screwed	NC	3,5	0,26	<b>27,40</b>
EV33MMA6		3/8"		NC	3,5	0,26	<b>29,90</b>
EV63MMA6		3/8"		NC	12,5	1,0	<b>37,70</b>
EV104MMA6		1/2"		NC	29,5	2,2	<b>50,10</b>
EV125MMA6		5/8"		NC	33,5	2,5	<b>54,90</b>
1020/2A6	CASTEL	1/4"		NC	2,3	0,175	<b>28,60</b>
1020/3A6		3/8"		NC	3,1	0,23	<b>31,-</b>
1064/3A6		3/8"		NC	10,7	0,8	<b>40,90</b>
1064/4A6		1/2"		NC	10,7	0,8	<b>41,-</b>
1070/4A6		1/2"		NC	29,5	2,2	<b>54,30</b>
1070/5A6		5/8"	NC	35,0	2,61	<b>59,30</b>	
1090/6A6		3/4"	NC	64,2	4,8	<b>92,80</b>	
EV32SA6	GMC	1/4" (6,4 mm)	brazed	NC	3,5	0,26	<b>30,10</b>
EV33SA6		3/8" (9,8 mm)		NC	3,5	0,26	<b>31,10</b>
EV3M10SA6		10 mm		NC	3,5	0,26	<b>31,10</b>
EV10M10SA6*		10 mm		NC	22,1	1,65	<b>38,70</b>
EV64SA6		1/2" (12,7 mm)		NC	12,5	1,0	<b>42,50</b>
EV6M12SA6		12 mm		NC	12,5	1,0	<b>42,50</b>
EV104SA6		1/2" (12,7 mm)		NC	29,5	2,2	<b>54,50</b>
EV10M12SA6		12 mm		NC	29,5	2,2	<b>54,50</b>
EV125SA6		5/8" (16,0 mm)		NC	33,5	2,5	<b>62,60</b>
EV226SA6		3/4" (19,3 mm)		NC	80,3	6,0	<b>90,30</b>
EV127SA6		7/8" (22,4 mm)		NC	33,5	2,5	<b>69,40</b>
EV227SA6		7/8" (22,4 mm)		NC	80,3	6,0	<b>93,20</b>
EV229SA6		1 1/8" (28,7 mm)		NC	80,3	6,0	<b>115,-</b>
1028/2A6.E	CASTEL	1/4" (6,4 mm)	NC	2,0	0,23	<b>32,70</b>	
1028/3A6		3/8" (9,8 mm)	NC	3,1	0,23	<b>33,60</b>	
1068/3A6		3/8" (9,8 mm)	NC	10,7	0,8	<b>44,-</b>	
1028/M10A6		10 mm	NC	3,1	0,23	<b>33,60</b>	
1068/M10A6		10 mm	NC	10,7	0,8	<b>44,-</b>	
1068/4A6		1/2" (12,7 mm)	NC	10,7	0,8	<b>46,-</b>	
1078/4A6		1/2" (12,7 mm)	NC	29,5	2,2	<b>59,20</b>	
1068/M12A6		12 mm	NC	10,7	0,8	<b>46,-</b>	
1078/M12A6		12 mm	NC	29,5	2,2	<b>59,20</b>	
1078/5A6		5/8" (16,0 mm)	NC	35,0	2,61	<b>71,10</b>	
1098/6A6		3/4" (19,3 mm)	NC	64,2	4,8	<b>103,-</b>	
1079/7A6		7/8" (22,4 mm)	NC	35,0	2,61	<b>79,-</b>	
1098/7A6		7/8" (22,4 mm)	NC	76,3	5,7	<b>106,-</b>	

\* Until stock last

# SOLENOID VALVES

## SOLENOID VALVES with coil, without el. connector (GMC, Castel) - continued

Code		Description/El. Connector		Type	Q <sub>ZN</sub> [kW]	Kv [m <sup>3</sup> /h]	Price [EUR]	
1098/9A6	CASTEL	1 1/8"	(28,7 mm)	brazed	NC	133,9	10	<b>270,-</b>
1099/9A6		1 1/8"	(28,7 mm)		NC	76,3	5,7	<b>131,-</b>
1078/11A6		1 3/8"	(35,2 mm)		NC	214,2	16	<b>264,-</b>
1079/11A6		1 3/8"	(35,2 mm)		NC	133,9	10	<b>279,-</b>
1099/11A6		1 3/8"	(35,2 mm)		NC	133,9	10	<b>227,-</b>
1079/M42A6		42 mm	NC		214,2	16	<b>357,-</b>	



## SOLENOID VALVES without coil and el. connector (Castel, Danfoss)

Code		Description/El. Connector		Type	Q <sub>ZN</sub> [kW]	Kv [m <sup>3</sup> /h]	Price [EUR]		
1020/2S	CASTEL	1/4"		screwed	NC	2,3	0,18	<b>17,90</b>	
1020/3S		3/8"			NC	3,1	0,23	<b>20,30</b>	
1064/3S		3/8"			NC	10,7	0,8	<b>30,20</b>	
1064/4S		1/2"			NC	10,7	0,8	<b>30,30</b>	
1070/5S		5/8"			NC	35,0	2,61	<b>48,60</b>	
1028/2SE	CASTEL	1/4"	(6,4 mm)	brazed	NC	3,1	0,23	<b>32,70</b>	
1028/3S		3/8"	(9,8 mm)		NC	3,1	0,23	<b>21,80</b>	
1028/M10S		10 mm			NC	3,1	0,23	<b>22,90</b>	
1068/3S		3/8"	(9,8 mm)		NC	10,7	0,8	<b>33,30</b>	
1068/M10S		10 mm			NC	10,7	0,8	<b>33,30</b>	
1068/4S		1/2"	(12,7 mm)		NC	10,7	0,8	<b>35,40</b>	
1068/M12S		12 mm			NC	10,7	0,8	<b>35,40</b>	
1078/M12S		12 mm			NC	29,5	2,2	<b>48,50</b>	
1078/5S		5/8"	(16,0 mm)		NC	35,0	2,61	<b>60,40</b>	
1098/6S		3/4"	(19,3 mm)		NC	64,2	4,8	<b>91,50</b>	
1079/7S		7/8"	(22,4 mm)		NC	35,0	2,61	<b>68,20</b>	
1098/7S		7/8"	(22,4 mm)		NC	76,3	5,7	<b>95,-</b>	
1099/9S		1 1/8"	(28,7 mm)		NC	76,3	5,7	<b>120,-</b>	
1079/11S		1 3/8"	(35,2 mm)		NC	133,9	10	<b>269,-</b>	
1078/M42S		42 mm			NC	334,6	25	<b>486,-</b>	
1158/7S		7/8"	(22,4 mm)		NO	76,3	5,7	<b>262,-</b>	
1198/9S		1 1/8"	(28,7 mm)		NO	133,9	10	<b>288,-</b>	
1178/11S		1 3/8"	(35,2 mm)		NO	214,3	16	<b>334,-</b>	
032F1208		DANDOSS	10 mm		EVR-3	NC	3,68	0,26	<b>206,- PLN</b>
032L7110			3/8" (9,8 mm)		EVR-4	NC	9,26	0,7	<b>328,- PLN</b>
032L1236	12 mm		EVR-6	NC	12,12	1	<b>328,- PLN</b>		
032L1214	16 mm		EVR-10	NC	25,47	2,2	<b>404,- PLN</b>		
032L1225	22 mm		EVR-15	NC	39,23	3,3	<b>679,- PLN</b>		
032L1245	28 mm		EVR-20	NC	81,46	6	<b>955,- PLN</b>		

NO valves work only with HM3 coils

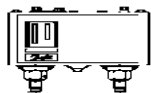
# SOLENOID VALVES



## ACCESSORIES FOR SOLENOID VALVES (coils, connectors, permanent magnets)

Code		Description	Power supply	Protection class	Price [EUR]
KMA6	GMC	Coil 9 Watt	230 V AC 50-60 Hz	IP 65	<b>10,80</b>
KMA2		Coil 9 Watt	24 V AC 50-60 Hz	IP 65	<b>10,80</b>
KMD2		Coil 20 Watt	12 V DC (direct current)	IP 65	<b>24,-</b>
KMD4		Coil 20 Watt	24 V DC (direct current)	IP 65	<b>24,-</b>
JB9/11		El. connector for coils GMC		IP 65	<b>1,60</b>
HF2/9300/RA6	CASTEL	Coil 8 Watt	230 V AC 50-60 Hz	IP 65	<b>10,70</b>
HF2/9300/RA2		Coil 8 Watt	24 V AC 50-60 Hz	IP 65	<b>10,70</b>
HM3/9120/RD1		Coil 20 Watt	12 V DC (direct current)	IP 65	<b>26,40</b>
HF3/9320/RD2		Coil 20 Watt	24 V DC (direct current)	IP 65	<b>25,20</b>
HM3/9120/RD6		Coil 18 Watt	220 V AC 50-60 Hz	IP 65	<b>29,-</b>
HM4/9160/RA6		Coil 8 Watt (heavy duty)	230 V AC 50-60 Hz	IP 68	<b>17,40</b>
CM2/9110/RA6		Coil 8 Watt with 10 m cable	230 V AC 50-60 Hz	IP 65	<b>19,90</b>
18/PG11		El. connector 9150/R02 for coils Castel: HF2/9300/RA6, HF2/9300/RA2, HM3/9120/RD1, HF3/9320/RD2		IP 65	<b>1,70</b>
9150/R45	El. connector 9150/R45 for coils Castel: HM3/9120/RD6		IP 65	<b>8,50</b>	
9155/R01	El. connector for coils Castel: HM4/9160/RA6		IP 68	<b>2,30</b>	
004257	O-ring for 1070-1078/4-5(M12), 1079/7			<b>0,90</b>	
018F6701	DANFOSS	Coil 12 Watt with connect.	230 V AC 50 Hz	IP 67	<b>176,- PLN</b>
018F6732		Coil 14/17 Watt with connect.	230 V AC 50/60 Hz	IP 67	<b>176,- PLN</b>
018F0091		Permanent magnet for solenoid valves			<b>208,- PLN</b>

# PRESSURE SWITCHES



## PRESSURE SWITCHES (Alco, Danfoss, Ranco)

Code		Description	Price [EUR]	Price [PLN]	
PS1-A3A	ALCO	single LP-aut.	46,30	-	
PS1-A5A		single HP-aut.	46,30	-	
PS1-W5A		single HP-aut. (with double bellow)	65,-	-	
PS1-R5A		single HP-manual	55,70	-	
PS1-B5A		single HP-manual (with double bellow)	68,90	-	
PS2-L7A		double LP-aut. HP-manual	75,-	-	
PS2-C7A		double LP-aut. HP-manual (with double bellow)	98,90	-	
PS2-A7A		double LP-aut. HP-aut. (with double bellow)	67,20	-	
PS2-R7A		double LP-manual HP-manual	79,80	-	
O16-H6703*	ELIWELL (RANCO)	single LP-aut.	31,90	-	
O16-H6750*		single HP-aut.	31,90	-	
O16-H6758*		single HP-aut. (with double bellow)	42,80	-	
O16-H6751*		single HP-manual	33,80	-	
O16-H6759*		single HP-manual (with double bellow)	44,-	-	
O17-H4759*		double LP-aut. HP-manual (with double bellow)	74,50	-	
O17-H4703*		double LP-manual HP-manual	63,40	-	
060-110166	DANFOSS	single LP-aut. - KP-1	-	283,-	
060-117166		single HP-aut. - KP-5	-	283,-	
060-117466		single HP-aut. - KPR-5 (stainless steel bellow)	-	641,-	
060-119166		single HP-manual - KP-7B (with double bellow)	-	315,-	
060-124366		double LP-aut. HP-manual - KP-15	-	468,-	
060-539766		double LP-aut. HP-manual - KP17WB (with double bellow)	-	605,-	
061F7518	DANFOSS CARTRIDGE PRESSURE SWITCH	LP-aut. (0,5-1,5 bar) brazed ø6 - ACB-2UA518W	-	128,-	
061F7520		single LP-aut. (0,5-1,5 bar) screw 1/4" fm SAE - ACB-2UA520W	-	128,-	
061F7526		single LP-aut. (1,7 - 2,7 bar) screw 1/4" fm SAE - ACB-2UA526W	-	128,-	
061F9703		single HP-manual (20-26 bar) brazed ø6 - ACB-2UB803MW	-	148,-	
061F9713		single HP-manual (20-26 bar) screw 1/4" fm SAE - ACB-2UB813MW	-	148,-	
061F7507		single HP-aut. (20-26 bar) brazed ø6 - ACB-2UB507W	-	128,-	
061F7509		single HP-aut. (20-26 bar) screw 1/4" fm SAE - ACB-2UB509W	-	128,-	
061F8333		single HP-aut. (13-16 bar) screw 1/4" fm SAE - AACB-2UA305W	-	128,-	
061F8334		single HP-aut. (13-16 bar) brazed ø6 - ACB-2UA306W	-	128,-	
060-105666			Universal Danfoss pressure switch holder	-	25,10

\* Until stock last

## FILTER DRIERS (GMC, Castel, Danfoss)

Code		Description/El. Connector		Size	Price [EUR]	Price [PLN]		
SC032MM	GMC	1/4"	screwed	032	<b>7,20</b>	-		
SC052MM		1/4"		052	<b>8,-</b>	-		
SC053MM		3/8"		053	<b>8,-</b>	-		
SC083MM		3/8"		083	<b>10,60</b>	-		
SC163MM		3/8"		163	<b>13,10</b>	-		
SC084MM		1/2"		084	<b>11,-</b>	-		
SC164MM		1/2"		164	<b>13,10</b>	-		
SC304MM		1/2"		304	<b>23,90</b>	-		
SC165MM		5/8"		165	<b>13,30</b>	-		
SC305MM		5/8"		305	<b>23,90</b>	-		
SC415MM		5/8"		415	<b>33,20</b>	-		
SC416MM		3/4"		416	<b>33,50</b>	-		
DF303/2		CASTEL		1/4"	screwed	032	<b>7,30</b>	-
DF305/2				1/4"		052	<b>8,10</b>	-
DF305/3	3/8"		053	<b>8,10</b>		-		
4308/3*	3/8"		083	<b>10,70</b>		-		
DF308/3	3/8"		083	<b>11,30</b>		-		
DF316/3	3/8"		163	<b>13,50</b>		-		
DF308/4	1/2"		084	<b>11,30</b>		-		
DF316/4	1/2"		164	<b>13,50</b>		-		
DF330/4	1/2"		304	<b>24,40</b>		-		
DF316/5	5/8"		165	<b>13,50</b>		-		
DF330/5	5/8"		305	<b>24,40</b>		-		
DF341/5	5/8"		415	<b>34,90</b>		-		
4341/6*	3/4"		416	<b>40,40</b>		-		
DF341/6	3/4"		416	<b>35,80</b>		-		
023Z5008	DANFOSS	3/8"	DCL-163	163	-	<b>135,-</b>		
023Z500991		1/2"	DCL-164	164	-	<b>135,-</b>		
023Z0013		1/2"	DCL-304	304	-	<b>189,-</b>		
023Z5010		5/8"	DCL-165	165	-	<b>135,-</b>		
023Z0014		5/8"	DCL-305	305	-	<b>189,-</b>		
SC032S	GMC	1/4"	(6,4 mm)	032S	<b>7,20</b>	-		
SC052S		1/4"	(6,4 mm)	052S	<b>8,-</b>	-		
SC053S		3/8"	(9,8 mm)	053S	<b>8,-</b>	-		
SC083S		3/8"	(9,8 mm)	083S	<b>10,60</b>	-		

# FILTERS

## FILTER DRIERS (GMC, Castel, Danfoss) - continued

Code		Description/El. Connector		Size	Price [EUR]	Price [PLN]	
SC163S	GMC	3/8"	(9,8 mm)	163S	<b>13,10</b>	-	
SC163M10S			10 mm	163S	<b>13,10</b>	-	
SC164M12S			12 mm	164S	<b>13,10</b>	-	
SC164S			1/2"	(12,7 mm)	164S	<b>13,10</b>	-
SC304S			1/2"	(12,7 mm)	304S	<b>23,90</b>	-
SC165S			5/8"	(16,0 mm)	165S	<b>13,30</b>	-
SC305S			5/8"	(16,0 mm)	305S	<b>23,90</b>	-
SC415S			5/8"	(16,0 mm)	415S	<b>33,20</b>	-
SC416S			3/4"	(19,3 mm)	416S	<b>33,50</b>	-
SC417S			7/8"	(22,4 mm)	417S	<b>33,50</b>	-
SC757S			7/8"	(22,4 mm)	757S	<b>62,80</b>	-
DF303/2S		CASTEL	1/4"	(6,4 mm)	032S	<b>7,30</b>	-
DF305/2S				1/4"	(6,4 mm)	052S	<b>8,10</b>
DF305/3S			3/8"	(9,8 mm)	053S	<b>8,10</b>	-
DF308/3S			3/8"	(9,8 mm)	083S	<b>11,30</b>	-
DF316/3S			3/8"	(9,8 mm)	163S	<b>13,50</b>	-
DF316/M10S				10 mm	163S	<b>13,50</b>	-
DF316/M12S				12 mm	164S	<b>13,50</b>	-
DF316/4S			1/2"	(12,7 mm)	164S	<b>13,50</b>	-
DF330/4S			1/2"	(12,7 mm)	304S	<b>24,40</b>	-
DF316/5S			5/8"	(16,0 mm)	165S	<b>13,50</b>	-
DF330/5S			5/8"	(16,0 mm)	305S	<b>24,40</b>	-
DF341/5S			5/8"	(16,0 mm)	415S	<b>34,90</b>	-
DF341/6S			3/4"	(19,3 mm)	416S	<b>35,80</b>	-
DF341/7S			7/8"	(22,4 mm)	417S	<b>36,80</b>	-
DF375/7S			7/8"	(22,4 mm)	757S	<b>94,20</b>	-
DF375/9S			1 1/8"	(28,7 mm)	759S	<b>94,20</b>	-
023Z4545*	D.		7/8" (22,4 mm)	DCL-607 S	607S	-	<b>283,-</b>

\* Until stock last



# FILTERS



## BI-FLOW FILTER DRIERS (Castel)

Code	Description/El. Connector		Size	Price [EUR]	
DB308/3S	3/8"	(9,8 mm)	brazed	083S	19,80
DB308/4S	1/2"	(12,7 mm)		084S	21,20
DB316/5S	5/8"	(16,0 mm)		165S	28,30



## Suction line burn-out filters (Danfoss)

Code	Description/El. Connector		Model	Price [PLN]	
023Z1001	3/8"		screwed	DAS 083 VV	256,-
023Z1002	1/2"			DAS 084 VV	256,-
023Z1007	1/2"			DAS 164 VV	289,-
023Z1008	5/8"			DAS 165 VV	289,-
023Z1011	3/4"	(19,3 mm)	brazed	DAS 166 sVV	289,-
023Z1015	7/8"	(22,4 mm)		DAS 307 sVV	350,-
023Z1018	1 1/8"	(28,7 mm)		DAS 419 sVV	392,-



## STRAINERS for refrigerants and oil (GMC, Castel, Carly)

Code	Description/El. Connector		Price [EUR]	
S053MM	GMC	3/8"	13,20	
S164MM		1/2"	22,80	
4510/3	CAST.	3/8"	17,20	
4510/4		1/2"	26,30	
S053S	GMC	3/8"	(9,8 mm)	13,20
S053M10S		10 mm	13,20	
S054M12S		12 mm	13,20	
S166S		3/4"	(19,3 mm)	14,90
4520/3	CASTEL	3/8"	(9,8 mm)	14,80
4520/M10		10 mm	14,80	
4520/M12		12 mm	15,20	
4520/4		1/2"	(12,7 mm)	15,20
4520/5		5/8"	(16,0 mm)	16,60
4520/M18		18 mm	25,20	
FACY-287S/MMS	CARLY	7/8"	(22,4 mm)	87,10
FACY-289S		1 1/8"	(28,7 mm)	90,90
FACY-489MMS		1 1/8"	(28,7 mm)	114,-
FACY-4811S/MMS		1 3/8"	(35,2 mm)	122,-
FACY-4813MMS		1 5/8"	(41,25 mm)	137,-



# FILTERS



## FILTERS with replaceable core (GMC, Castel)

Code		Description/El. Connector		Quantity x core type		Price [EUR]			
CSR485	GMC	5/8"	(16,0 mm)	brazed	1 szt. x H48	chem.(mech.)	94,40		
CSR487		7/8"	(22,4 mm)				96,10		
CSR489		1 1/8"	(28,7 mm)				99,80		
CSR4811		1 3/8"	(35,2 mm)				99,80		
CSR9611		1 3/8"	(35,2 mm)				2 szt. x H48	115,30	
CSR48M42		42 mm	1 szt. x H48				109,30		
CSR96M42		42 mm	2 szt. x H48				125,30		
CSR144M42		42 mm	3 szt. x H48				146,30		
CSR4817		2 1/8"	54/60,3 - nipple				1 szt. x H48	112,30	
CSR19217		2 1/8"	54/60,3 - nipple				4 szt. x H48	167,30	
CSR487A		7/8"	(22,4 mm)				strainer	1 szt. x H48	93,80
CSR489A		1 1/8"	(28,7 mm)					1 szt. x H48	104,-
CSR4811A		1 3/8"	(35,2 mm)					1 szt. x H48	103,-
CSR48M42A		42 mm	1 szt. x H48					107,-	
CSR4817A	2 1/8"	54/60,3 - nipple	1 szt. x H48	110,-					
CSR4821A	2 5/8"	64,4/76,1 - nipple	1 szt. x H48	122,-					
4411/5A	CASTEL	5/8"	(16,0 mm)	brazed	1 szt. x H48	chem.(mech.)		103,-	
4411/7A		7/8"	(22,4 mm)					103,-	
4411/9A		1 1/8"	(28,7 mm)				106,-		
4412/9A		1 1/8"	(28,7 mm)				2 szt. x H48	140,-	
4411/11A		1 3/8"	(35,2 mm)				1 szt. x H48	123,-	
4412/11A		1 3/8"	(35,2 mm)				2 szt. x H48	143,-	
4411/M42A		42 mm	1 szt. x H48				127,-		
4413/M42A		42 mm	3 szt. x H48				152,-		
4411/17A		2 1/8"	54/60,3 - nipple				1 szt. x H48	133,-	
4414/17A		2 1/8"	54/60,3 - nipple				4 szt. x H48	207,-	
4423/21A		2 5/8"	64,4/76,1 - nipple				3 szt. x H100	568,-	
4423/25A		3 1/8"	80/88,9 - nipple				3 szt. x H100	583,-	
4411/17C		2 1/8"	54/60,3 - nipple				strainer	1 szt. x H48	124,-
4411/21C		2 5/8"	64,4/76,1 - nipple					1 szt. x H48	144,-
4421/21C		2 5/8"	64,4/76,1 - nipple					1 szt. x H100	393,-
4421/25C		3 1/8"	80/88,9 - nipple					1 szt. x H100	404,-
4421/34C		4 1/8"	105/114,3 - nipple					1 szt. X H100	421,-
0007677	Strainer for filters 44..					12,90			

Note: filters with service valve

# FILTERS



## FILTER CORES (GMC, Castel, Danfoss)

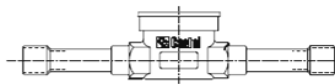
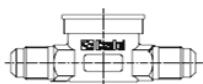
Code		Description	Price [EUR]	Price [PLN]
CSR48	GMC	H48, dehydrating	10,20	-
CSR48A		H48, dehydrating, deacidificating	11,-	-
CSR48AA		H48, dehydrating, deacidificating, activated carbon	19,90	-
MFC48		H48, strainer	21,60	-
CSR100		H100, dehydrating	29,-	-
CSR100A		H100, dehydrating, deacidificating	30,10	-
MFC100G		H100, strainer	32,30	-
4490/A	CASTEL	H48, dehydrating	11,10	-
4490/AA		H48, dehydrating, deacidificating	12,20	-
4490/BA		H48, deacidificating (burn out)	12,90	-
4495/C		H48, strainer	23,10	-
4491/A		H100, dehydrating	31,40	-
4491/AA		H100, dehydrating, deacidificating	33,20	-
4496/C		H100, strainer	36,80	-
023U5380*	DAN.	48 DA, deacidificating (burn out)	-	139,-
023U4381		48 DC, dehydrating, deacidificating	-	139,-

\* Until stock last

## SPARE PARTS FOR FILTERS (Castel)

Code		Description	Price [EUR]
001604-M	GMC	Gasket MFC100	3,20
9150/R57	CAST.	Cover (4495/C)	9,60
9150/R58		Cover (4496/C)	15,40

# SIGHT GLASSES



## SIGHT GLASSES with moisture indication (GMC, Castel, Carly)

Code		Description/El. Connector		Price [EUR]
MI2MM	GMC	1/4"	screwed	10,40
MI3MM		3/8"		11,60
MI4MM		1/2"		13,70
MI5MM		5/8"		14,50
3910/22	CASTEL	1/4"		11,40
3910/33		3/8"		12,40
3910/44		1/2"		14,80
3910/55		5/8"		16,30

# SIGHT GLASSES

## SIGHT GLASSES with moisture indication (GMC, Castel, Carly) – continued

Code		Description/El. Connector		Price [EUR]	
MI3MF	GMC	3/8"		12,10	
MI4MF		1/2"		14,30	
MI5MF		5/8"		19,50	
3950/33	CASTEL	3/8"		12,50	
3950/44		1/2"		15,10	
3950/55		5/8"		21,-	
MI2S	GMC	1/4"	(6,4 mm)	13,70	
MI3S		3/8"	(9,8 mm)	15,20	
MIM10S			10 mm	15,20	
MI4S		1/2"	(12,7 mm)	16,40	
MIM12S			12 mm	16,40	
MI5S		5/8"	(16,0 mm)	17,60	
MIM18S			18 mm	20,70	
MI7S		7/8"	(22,4 mm)	27,-	
MI9S		1 1/8"	(28,7 mm)	33,20	
MI11ST		1 3/8"	(35,2 mm)	32,80	
MI13ST		1 5/8"	(41,25 mm)	35,80	
MI17ST		2 1/8"	(54,4 mm)	52,60	
3940/2		CASTEL	1/4"	(6,4 mm)	15,70
3940/3			3/8"	(9,8 mm)	17,10
3940/M10			10 mm	17,10	
3940/4	1/2"		(12,7 mm)	17,70	
3940/M12			12 mm	17,70	
3940/5	5/8"		(16,0 mm)	19,50	
3940/M18			18 mm	23,50	
3940/7	7/8"		(22,4 mm)	29,60	
3940/9	1 1/8"		(28,7 mm)	37,40	
3771/11	1 3/8"		(35,2 mm)	38,40	
3771/M42			42 mm	45,30	
3771/17	2 1/8"	(54,4 mm)	62,-		
MI7T	GMC	7/8"	(22,4 mm)	14,30	
MI9T		1 1/8"	(28,7 mm)	14,30	
MI11T		1 3/8"	(35,2 mm)	14,30	
MIM42T			42 mm	17,20	
MI17T		2 1/8"	(54,4 mm)	17,20	
VCYLS-13S*	CARLY	1 5/8"	(41,25 mm)	30,50	
000516	GMC	O-ring for sight glasses MI..T		0,60	

\* Until stock last

# ARMATURE



TECNAC

## SUCTION ACCUMULATORS (Tecnac)

Code	Colour	Brazed connection		Volume [dm <sup>3</sup> ]	Price [EUR]
DAL-011F	Green	3/4"	(19,1 mm)	1,5	71,-
DAL-016A	Green	7/8"	(22,4 mm)	3,0	72,-
DAL-019A	Green	1 1/8"	(28,7 mm)	5,0	72,40
DAL-021B	Green	1 1/8"	(28,7 mm)	7,1	88,-
DAL-021A	Green	1 3/8"	(35,2 mm)	7,1	85,40
DAL-022B	Green	1 5/8"	(41,25 mm)	9,0	116,-
DAL-150A	Green	2 1/8"	(54,4 mm)	15,0	287,-
DAL-200A	Green	2 1/8"	(54,4 mm)	20,0	346,-
DAL-210A	Green	2 5/8"	(66,68 mm)	20,0	379,-
DAL-350A	Green	3 1/8"	(79,38 mm)	35,0	494,-
DAL-350Y	Green	3 5/8"	(90,10 mm)	35,0	578,-
DAL-500A-3-1/8"	Green	3 1/8"	(79,38 mm)	50,0	814,-
DAL-500A-4-1/8"	Green	4 1/8"	(104,80 mm)	50,0	817,-
BT-700	Green	3 5/8"	(90,10 mm)	70,0	944,-
DAL-1000A	Green	4 1/8"	(104,80 mm)	100,0	1 276,-

## SUCTION ACCUMULATORS with heat exchangers (Tecnac)

Code	Brazed connection				Volume [dm <sup>3</sup> ]	Price [EUR]
DALH-011F	3/4"	(19,1 mm)	3/8"	(9,52 mm)	1,5	129,-
DALH-017A	7/8"	(22,4 mm)	1/2"	(12,7 mm)	4,0	179,-
DALH-021B	1 1/8"	(28,7 mm)	5/8"	(16,0 mm)	7,2	252,-
DALH-022A	1 3/8"	(35,2 mm)	3/4"	(19,1 mm)	9,0	269,-
DALH-022B	1 5/8"	(41,25 mm)	3/4"	(19,1 mm)	9,0	265,-
BTH-180A	2 1/8"	(54,4 mm)	7/8"	(22,4 mm)	18,0	715,-
BTH-360A	2 5/8"	(66,68 mm)	1 1/8"	(28,7 mm)	36,0	1 130,-
BTH-500-3-1/8	3 1/8"	(79,38 mm)	1 1/8"	(28,7 mm)	50,0	1 272,-

Sample code:

TC-SC-DALH-011F-Z-M

## OIL SEPARATORS (Castel, Carly)

Code	Description/El. Connector			Price [EUR]	
5540/4	1/2"	(12,7 mm)	brazed	136,-	
5540/5	5/8"	(16,0 mm)		143,-	
5540/7	7/8"	(22,4 mm)		149,-	
6009-MMS		28 mm		TURBOIL	279,-
5540/9	1 1/8"	(28,7 mm)			171,-
5540/11	1 3/8"	(35,2 mm)			186,-
7011-S/MMS	1 3/8"	(35,2 mm)		TURBOIL	301,-
5540/13	1 5/8"	(41,25 mm)			312,-
8013-MMS	1 5/8"	(41,25 mm)		TURBOIL	306,-
5540/M42		42 mm			312,-
5540/17	2 1/8"	(54,4 mm)			332,-
9017-S/MMS	2 1/8"	(54,4 mm)		TURBOIL	395,-
F-15017-S/MMS	2 1/8"	(54,4 mm)		TURBOIL	981,-
F-15021-MMS		67 mm	TURBOIL	1 284,-	
F-30025S	3 1/8"	(79,38 mm)	TURBOIL	1 291,-	

# ARMATURE

## OIL SYSTEM COMPONENTS for parallel systems

Code	Description	Price [EUR]
52S581P031	Electronic oil level regulator KRIWAN, INT 280, 230 V AC (adapter required for some Bitzer compressors)	<b>265,-</b>
INT280-1	Adapter for Kriwan electronic oil regulator for Bitzer compressors 2KC.. - 4CC..; 2KES.. - 4CES..	<b>28,-</b>
LEVOIL-23	Oil level regulator (0,8 l) for Bitzer compressors 4VC..- 6F, 4VES-6FE	<b>163,-</b>
LEVOIL-23-BO	Oil level regulator with adapter (0,8 l) for Bitzer compressors 2KC.. - 4CC, 2KES-4CES	<b>234,-</b>
CY-15552190	O-ring for LEVOIL 23	<b>8,50</b>
RHA4-B	Oil receiver TECNAC 4 l with shut-off valves	<b>157,-</b>
RHA6-B	Oil receiver TECNAC 6 l with shut-off valves	<b>176,-</b>
RHA8-B	Oil receiver TECNAC 8 l with shut-off valves	<b>192,-</b>
RHA12-B	Oil receiver TECNAC 12 l with shut-off valves	<b>208,-</b>
RHA16-B-219	Oil receiver TECNAC 16 l with shut-off valves	<b>272,-</b>
RHA20-B	Oil receiver TECNAC 20 l with shut-off valves	<b>361,-</b>
6110/X12	Angle shut-off valve for regulator 3/8"- brazed	<b>14,70</b>
6110/X13	Angle shut-off valve for regulator 3/8"- screwed	<b>14,60</b>
6110/X15	Angle shut-off valve for regulator 1/4"f - brazed	<b>13,60</b>
HCYCT-1	Oil pressure regulating valve (0,35 bar)	<b>47,70</b>
3150/X02	Oil pressure regulating valve (1,4 bar)	<b>31,-</b>
HCYCT-3	Oil pressure regulating valve (1,4 bar)	<b>47,70</b>
HCYCT-4	Oil pressure regulating valve (3,5 bar)	<b>57,20</b>
HCYCTR	Oil pressure regulating valve (adjustable 0,35 ÷ 3,5 bar)	<b>125,-</b>

# VALVES

## CHECK VALVES (GMC, Castel, Danfoss)



Code		Description/El. Connector			Kv [m³/h]	Price [EUR]	
CV3/M10	GMC	10 mm	straight	brazed	copper coupler	1,4	<b>20,50</b>
CV3/M12		12 mm			copper coupler	2,0	<b>21,60</b>
CV3/5		5/8" (15,9 mm)			copper coupler	3,6	<b>30,-</b>
CV3/M18		18 mm			copper coupler	3,6	<b>31,50</b>
CV3/7		7/8" (22,4 mm)			copper coupler	5,5	<b>35,90</b>
CV4/7		7/8" (22,4 mm)			copper coupler	6,6	<b>55,90</b>
CV2/M22		22 mm			to valve body	6,6	<b>57,10</b>
CV2/M28		28 mm			to valve body	8,8	<b>57,10</b>
CV4/M28		28 mm			copper coupler	8,8	<b>65,60</b>
CV2/9		1 1/8" (28,7 mm)			to valve body	8,8	<b>57,10</b>
CV4/9		1 1/8" (28,7 mm)			copper coupler	8,8	<b>65,60</b>
CV2/11		1 3/8" (35,2 mm)			to valve body	15,2	<b>79,90</b>
CV4/11		1 3/8" (35,2 mm)			copper coupler	15,2	<b>99,80</b>
CV2/13		1 5/8" (41,25 mm)			to valve body	25,0	<b>111,-</b>
CV2/M42		42 mm			to valve body	25,0	<b>129,-</b>
CV4/M42		42 mm			copper coupler	25,0	<b>157,-</b>
CV2/17		2 1/8" (54,4 mm)			to valve body	40,0	<b>214,-</b>
CV4/21		2 5/8" (66,8 mm)			copper coupler	40,0	<b>257,-</b>
CV4/25	3 1/8" (79,8 mm)	copper coupler	40,0	<b>286,-</b>			
3132/2	CASTEL	1/4" (6,4 mm)	straight	brazed	copper coupler	0,5	<b>21,80</b>
3132/M10		10 mm			copper coupler	1,5	<b>23,30</b>
3133/M10		10 mm			copper coupler	1,6	<b>23,80</b>
3132W/M12		12 mm			copper coupler	1,8	<b>23,30</b>
3132W/5		5/8" (15,9 mm)			copper coupler	3,3	<b>32,80</b>
3132W/M18		18 mm			copper coupler	5,0	<b>35,80</b>
3132W/7		7/8" (22,4 mm)			copper coupler	5,0	<b>40,70</b>
3144W/7		7/8" (22,4 mm)			copper coupler	8,1	<b>67,-</b>
3124N/7		7/8" (22,4 mm)			to valve body	8,1	<b>63,90</b>
3144W/M28		28 mm			copper coupler	10,4	<b>72,30</b>
3144W/9		1 1/8" (28,7 mm)			copper coupler		<b>72,30</b>
3124N/9		1 1/8" (28,7 mm)			to valve body	10,4	<b>63,90</b>
3124N/M28		28 mm			to valve body	10,4	<b>63,90</b>
3144W/11		1 3/8" (35,2 mm)			copper coupler	15,6	<b>118,-</b>
3124N/11		1 3/8" (35,2 mm)			to valve body	15,6	<b>93,40</b>
3122/13		1 5/8" (41,25 mm)			to valve body	25,0	<b>164,-</b>
3124N/M42		42 mm			to valve body	25,0	<b>158,-</b>
3144W/17		2 1/8" (54,4 mm)			copper coupler	39,0	<b>321,-</b>
3144W/21	2 5/8" (66,8 mm)	copper coupler	39,0	<b>342,-</b>			
3144W/25	3 1/8" (79,8 mm)	copper coupler	39,0	<b>378,20</b>			
3142/25	3 1/8" (79,8 mm)	copper coupler	40,0	<b>395,50</b>			
020B1015	DANFOSS	10 mm	angle		copper coupler	1,4	<b>157,- PLN</b>
020B1016		12 mm			copper coupler	2,1	<b>168,- PLN</b>
020-1018		16 mm			copper coupler	3,6	<b>212,- PLN</b>
020-1020		22 mm			copper coupler	8,5	<b>442,- PLN</b>
020-1025		28 mm			copper coupler	19,0	<b>757,- PLN</b>
020-1026		35 mm			copper coupler	29,0	<b>964,- PLN</b>

# VALVES



## SPARE PARTS FOR CHECK VALVES (Castel)

Code	Description/El. Connector	Price [EUR]
004251	O-ring for valves 3120-6510-6520-6530/7-9	1,60
004261*	O-ring for valves 3120/17-3140/17-21	6,10
004691*	O-ring for valves 3120/11;6510/11	2,60
008002	O-ring for valves 3120-40-80; 6510-20/13	3,90
113703	O-ring for valves 3124N/7-/9; /M22-/M28	1,60
113704	O-ring for valves 3124N/11- 3125N/11	2,50
113735	O-ring for valves 3124N/13- /M42	3,-
008863	Valve gasket 3122/7 - 3122/M28	3,70
009174	Valve gasket 3122/11	4,60
009175	Valve gasket 3122/13; 3122/M42	6,50
009176	Valve gasket 3122/17; 3142/21;3142/25	8,40

\* Until stock last



## SHUT-OFF BALL VALVES (GMC)

Code	Description/El. Connector		Ball port [mm]	Kv [m <sup>3</sup> /h]	Price [EUR]	
BV2 <sup>1)</sup>	1/4"	(6,4 mm)	brazed	12	1,1	26,20
BV3 <sup>1)</sup>	3/8"	(9,8 mm)		12	3,2	27,-
BVM10 <sup>1)</sup>		10 mm		12	3,2	27,-
BV4 <sup>1)</sup>	1/2"	(12,7 mm)		12	6,0	27,-
BVM12 <sup>1)</sup>		12 mm		12	6,0	27,-
BV5 <sup>1)</sup>	5/8"	(16,0 mm)		12	14,2	31,30
BVM18 <sup>1)</sup>		18 mm		20	18,0	35,80
BV7 <sup>1)</sup>	7/8"	(22,4 mm)		20	27,5	44,10
BV9 <sup>1)</sup>	1 1/8"	(28,7 mm)		25	40,5	55,50
BVM28 <sup>1)</sup>		28 mm		25	40,5	55,50
BV11 <sup>1)</sup>	1 3/8"	(35,2 mm)		32	67,5	84,80
BVM42R <sup>1)</sup>		42 mm		32	67,5	95,40
BVM42 <sup>1)</sup>		42 mm		38	115,0	124,-
BV17 <sup>1)</sup>	2 1/8"	(54,4 mm)		50	185,0	182,-
BVM64R <sup>1)</sup>		64 mm		50	190,0	188,-
BVM64A <sup>2)</sup>		64 mm		65	295,0	428,-
BV24RA <sup>2)</sup>	3"	(76,9 mm)	65	295,0	428,-	

<sup>1)</sup> With brass cap and gasket

<sup>2)</sup> With brass cap, gasket and service valve

# VALVES



## SHUT-OFF BALL VALVES (Castel)

Code	Description/El. Connector		Ball port [mm]	Kv [m <sup>3</sup> /h]	Price [EUR]	
6570/3 <sup>1)</sup>	3/8"	(9,8 mm)	brazed	10	3	28,30
6570/M10 <sup>1)</sup>		10 mm		10	3	28,30
6570/4 <sup>1)</sup>	1/2"	(12,7 mm)		10	5	28,30
6570/M12 <sup>1)</sup>		12 mm		10	5	28,30
6570/5 <sup>1)</sup>	5/8"	(16,0 mm)		15	17	34,70
6570/M18 <sup>1)</sup>		18 mm		15	17	34,70
6570/7 <sup>1)</sup>	7/8"	(22,4 mm)		19	29	46,90
6570/9 <sup>1)</sup>	1 1/8"	(28,7 mm)		25	51	61,80
6570/M28 <sup>1)</sup>		28 mm		25	51	63,-
6570/11 <sup>1)</sup>	1 3/8"	(35,2 mm)		32	86	86,60
6590/M42 <sup>1)</sup>		42 mm		38	117	136,-
6590/17 <sup>1)</sup>	2 1/8"	(54,4 mm)		50	214	206,-
6570/M64A		64 mm		60	380	502,-
6571/24A	3"	(76,9 mm)		60	380	516,-
6570/28A <sup>1)</sup>	3 1/2"	(89,0 mm)	82	710	883,-	

<sup>1)</sup> With brass cap and gasket



## SHUT-OFF VALVES (GMC)

Code	Description/El. Connector			Kv [m <sup>3</sup> /h]	Price [EUR]	
CSV2S	1/4"	(6,4 mm)	capped	brazed	0,4	17,20
CSV3S	3/8"	(9,8 mm)			1,0	17,20
CSV10S		10 mm			1,0	17,20
CSV4S	1/2"	(12,7 mm)			1,5	18,60
CSV12S		12 mm			1,5	18,60
CSV5S	5/8"	(16,0 mm)			1,7	19,20
CSV6S*	3/4"	(19,3 mm)			3,4	30,20
CSV7S*	7/8"	(22,4 mm)			3,4	31,30

\* Until stock last



# VALVES



## SHUT-OFF VALVES (Castel)

Code	Description/El. Connector		Kv [m <sup>3</sup> /h]	Price [EUR]		
6210/2	1/4"	diaphragm	screwed	0,28	18,70	
6210/3	3/8"			1	23,80	
6210/4	1/2"			1,3	25,40	
6210/5	5/8"			1,8	28,60	
6220/2	1/4" (6,4 mm)		capped	brazed	0,28	18,70
6220/3	3/8" (9,8 mm)				1	23,70
6220/4	1/2" (12,7 mm)				1,3	25,40
6220/5	5/8" (16,0 mm)				1,8	28,60
6420/2	1/4" (6,4 mm)	capped		brazed	0,4	19,60
6420/3	3/8" (9,8 mm)				1	20,20
6420/M10	10 mm				1	20,20
6420/4	1/2" (12,7 mm)				1,45	21,30
6420/M12	12 mm		1,45		20,70	
6420/5	5/8" (16,0 mm)		1,7		22,-	
6420/M18	18 mm		3,5		37,60	
6420/M22	22 mm		3,5		42,70	



TECNAC

## ROTALOCK SHUT-OFF VALVES (Tecnac)

Code	Description	Price [EUR]
005003-01	Rotalock valve 1x1/2" ODS	12,-
005003-02	Rotalock valve 1x5/8" ODS	12,-
005024	Rotalock valve 1 1/4"x16 mm ODS	17,90
005001-02	Rotalock valve 1 1/4"x7/8" ODS	18,-
005002-01	Rotalock valve 1 3/4"x1 1/8" ODS	27,10
005002-02	Rotalock valve 1 3/4"x1 3/8" ODS	28,10
005004-02	Rotalock valve 2 1/4"x1 5/8" ODS	51,70
005004-01	Rotalock valve 2 1/4"x2 1/8" ODS	54,40
A-004108	Brazed connection 7/8" for rotalock valve 1-1/4"	10,80
A-004110	Brazed connection 1-1/8" for rotalock valve 1-3/4"	17,30
005005-02	Teflon gasket 1" for rotalock valve	1,10
005005-03	Teflon gasket 1 1/4" for rotalock valve	1,30
005005-04	Teflon gasket 1 3/4" for rotalock valve	1,60
005005-05	Teflon gasket 2 1/4" for rotalock valve	2,10

# VALVES



## SAFETY VALVES + accessories (GMC, Castel)

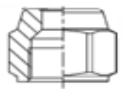
Code	Description			Price [EUR]	
	Type	Setting [bar]	El. connector		
SV2/44-14	GMC	Safety valve	14	1/2" NPTm - 1/2" Gm	29,10
SV2/44-16		Safety valve	16	1/2" NPTm - 1/2" Gm	29,10
SV2/44-21		Safety valve	21	1/2" NPTm - 1/2" Gm	26,-
SV2/44-25		Safety valve	25	1/2" NPTm - 1/2" Gm	29,10
SV2/44-28		Safety valve	28	1/2" NPTm - 1/2" Gm	26,-
SV2/44-40		Safety valve	40	1/2" NPTm - 1/2" Gm	29,10
SV2/44-42		Safety valve	42	1/2" NPTm - 1/2" Gm	29,10
BVR1/2NPT			Shut-off valve 1/2" NPTm - 1/2" NPTf (for SV2/44) (Kv=10m3/h)		
BV1/2NPT		Shut-off valve 1/2" NPTm - 1/2" NPTf (for SV2/44) (Kv=12m3/h)			48,-
3060/34C-21	CASTEL	Safety valve	21	3/8" NPTm - 1/2" SAE m	25,60
3061/3C-28		Safety valve	28	3/8" NPTm - 1/2" Gm	28,20
3061/4C-21		Safety valve	21	1/2" NPTm - 1/2" Gm	28,20
3061/4C-28		Safety valve	28	1/2" NPTm - 1/2" Gm	28,20
3030/44C-28		Safety valve	28	1/2" NPTm - 3/4" Gm	98,70
3065/4C-16		Safety valve	16	1/2" NPTm - 1" Gm	65,10
3065/4C-21		Safety valve	21	1/2" NPTm - 1" Gm	65,20
3065/4C-28		Safety valve	28	1/2" NPTm - 1" Gm	65,10
3065/4C-40		Safety valve	40	1/2" NPTm - 1" Gm	67,50
3064/33		Shut-off valve 3/8" NPTm - 3/8" NPTf			47,70
3064/44		Shut-off valve 1/2" NPTm - 1/2" NPTf			47,70
3032/44		Change-over valve 1/2" NPTm - 2x 1/2" NPTf			87,80
3032/33		Change-over valve 3/8" NPTm - 2x 3/8" NPTf			86,10
004260		O-ring for valve 3032/44			0,60
3035/4	Brazed connection for safety valve (1/2" NPTf - 22)			9,80	
3035/8	Brazed connection for safety valve (1" NPTf - 35)			19,70	
366005-01	BITZER	Adapter 1/2" NPTf for Bitzer receivers			32,-

# CONNECTORS, NUTS



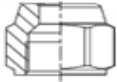
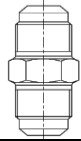
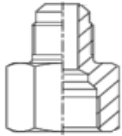
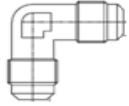
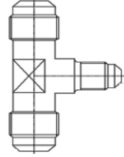
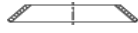
## Nuts, connectors, reductions, adapters, tees (GMC, Castel i others)

Code	El. connector	Type	Description	Price [EUR]
FN2-2	1/4" SAE f x 1/4" slot	-	Nut	0,70
7010/22	1/4" SAE f x 1/4" slot	-	Nut	0,80
FN3-3	3/8" SAE f x 3/8" slot	-	Nut	1,10
FN3-M10	3/8" SAE f x 10 slot	-	Nut	1,10
7030/3M10	3/8" SAE f x 10 slot	-	Nut	1,30
FN4-4	1/2" SAE f x 1/2" slot	-	Nut	1,60
7010/44	1/2" SAE f x 1/2" slot	-	Nut	1,90
FN4-M12	1/2" SAE f x 12 slot	-	Nut	1,60
7030/4M12	1/2" SAE f x 12 slot	-	Nut	1,90
7010/55	5/8" SAE f x 5/8" slot	-	Nut	2,40



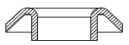


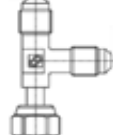
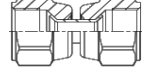

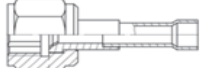
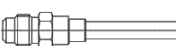




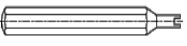
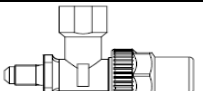
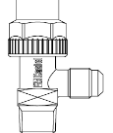
# CONNECTORS, NUTS

## Nuts, connectors, reductions, adapters, tees (GMC, Castel i others) – continued

Code	El. connector	Type	Description	Price [EUR]	
FN6-6	3/4" SAE f x 3/4" slot	-	Nut	3,70	
7010/66	3/4" SAE f x 3/4" slot	-	Nut	4,10	
FN7-7	7/8" SAE f x 7/8" slot	-	Nut	10,40	
7010/77	7/8" SAE f x 7/8" slot	-	Nut	9,70	
FN2-C	1/4" SAE f	-	Blind nut	0,70	
7020/20	1/4" SAE f	-	Blind nut	0,80	
FN3-2	3/8" SAE f x 1/4" slot	-	Reducing nut	1,10	
7020/32	3/8" SAE f x 1/4" slot	-	Reducing nut	1,40	
FN3-M8	3/8" SAE f x 8 slot	-	Reducing nut	1,10	
7030/3M8	3/8" SAE f x 8 slot	-	Reducing nut	1,40	
FN4-3	1/2" SAE f x 3/8" slot	-	Reducing nut	1,60	
7020/43	1/2" SAE f x 3/8" slot	-	Reducing nut	2,10	
FN5-4	5/8" SAE f x 1/2" slot	-	Reducing nut	2,-	
7020/54	5/8" SAE f x 1/2" slot	-	Reducing nut	2,60	
7020/65	3/4" SAE f x 5/8" slot	-	Reducing nut	4,-	
7110/2	1/4" SAE m x 1/4" SAE m	„1"	Union	1,50	
7110/3	3/8" SAE m x 3/8" SAE m	„2"	Union	2,40	
7110/4	1/2" SAE m x 1/2" SAE m	„3"	Union	3,60	
7110/5	5/8" SAE m x 5/8" SAE m	„4"	Union	5,50	
7110/6	3/4" SAE m x 3/4" SAE m	„5"	Union	9,10	
7130/2	1/4" SAE m x 1/4" NPT m	„6"	Reducing union	1,80	
U1-4B	1/4" SAE m x 1/4" NPT m	„6"	Reducing union	1,70	
7130/3	3/8" SAE m x 3/8" NPT m	„33"	Reducing union	2,90	
7130/4	1/2" SAE m x 1/2" NPT m	„0"	Reducing union	4,40	
7130/6	3/4" SAE m x 3/4" NPT m	„7"	Reducing union	9,90	
7140/21	1/4" SAE m x 1/8" NPT m	„8"	Reducing union	1,60	
U1-4A	1/4" SAE m x 1/8" NPT m	„8"	Reducing union	1,50	
7140/32	3/8" SAE m x 1/4" NPT m	„28"	Reducing union	3,10	
7140/54	5/8" SAE m x 1/2" NPT m	„9"	Reducing union	6,-	
7150/21	1/8" NPT f x 1/4" SAE m	„10"	Reducing union	3,40	
7150/32	1/4" SAE f x 3/8" SAE m	„32"	Reducing union	4,10	
7156/2	W21,8-14 f x 1/4" SAE m	„11"	Adapter for cylinder	4,80	
7156/X02	W21,8-14 f x 5/16" SAE m	-	Adapter for cylinder (R410A)	7,20	
R.DX	W21,8-14 f x 1/4" SAE m	-	Adapter for cylinder	4,10	
A-9009	5/16" SAE f x 1/4" SAE m	„40"	Adapter on R410A	71,80 PLN	
ZL-9010	1/8" NPT f x 1/4" NPT m	„41"	Reducing union	15,- PLN	
7230/21	1/4" SAE m x 1/8" NPT m	„12"	Elbow connector	3,60	
7210/3	3/8" SAE m x 3/8" SAE m	„37"	Elbow connector	6,20	
7210/4	1/2" SAE m x 1/2" SAE m	„38"	Elbow connector	10,50	
7220/2	1/4" SAE m x 1/4" NPT m	-	Elbow connector	3,80	
7310/2	1/4" SAEm x 1/4" SAEm x 1/4" SAEm	„13"	Tee	3,50	
7320/334	3/8" SAEm x 3/8" SAEm x 1/2" SAEm	„14"	Tee	10,90	
7320/445	1/2" SAEm x 1/2" SAEm x 5/8" SAEm	„15"	Tee	14,50	
7330/221	1/4" SAEm x 1/8" NPTm x 1/4" SAEm	„16"	Tee	3,60	
7330/222	1/4" SAEm x 1/4" NPTm x 1/4" SAEm	„29"	Tee	6,40	
7340/222	1/4" SAEm x 1/4" SAE f x 1/4" SAEm	„17"	Tee	6,30	
B1-4	1/4"	-	Copper end-cap	0,20	
7560/2	1/4"	-	Copper end-cap	0,20	
000090	1/4"	-	Copper gasket	0,20	
7580/2	1/4"	-	Copper gasket	0,20	
000091	3/8"	-	Copper gasket	0,20	
7580/3	3/8"	-	Copper gasket	0,20	
000092	1/2"	-	Copper gasket	0,20	
7580/4	1/2"	-	Copper gasket	0,20	
000093	5/8"	-	Copper gasket	0,20	
7580/5	5/8"	-	Copper gasket	0,40	

# CONNECTORS, NUTS

## Nuts, connectors, reductions, adapters, tees (GMC, Castel i others) - continued

Code	El. connector	Type	Description	Price [EUR]	
8580/2	1/4"	-	Capped gasket	0,20	
RATR-1/4"-6	Sealing copper gasket for RAFL-1/4"			0,50	
RATR-3/8"-10	Sealing copper gasket for RAFL-10MM			1,-	
8354/21	1/4" SAE m x 1/8" NPT m	„19"	Vent reducing union	1,30	
FA2-2NPT	1/4" SAE m x 1/4" NPT m (odp. 6)	„34"	Vent reducing union	1,60	
8354/22	1/4" SAE m x 1/4" NPT m (odp. 6)	„34"	Vent reducing union	1,70	
TR-9002*	1/4" SAE m x 1/4" SAE f x 1/4" SAE m	„22"	Tee with vent	51,60 PLN	
TR-9003*	1/4" SAE m x 1/4" SAE f x 1/4" SAE f	„23"	Tee with vent	56,50 PLN	
8380/X06	1/4" SAE m x 1/4" SAE m x 1/4" SAE f	„24"	Tee - without vent	11,10	
8380/122	1/4" SAE m x 1/4" SAE m x 1/8" NPT m	„27"	Tee with vent	3,80	
7050/3	US4-6 f x 3/8" SAE f	„30"	Screw union	4,50	
7050/4	US4-8 f x 1/2" SAE f	„31"	Screw union	5,40	
8382/1222	1/4"x1/4"x1/4" SAE m x 1/8" NPT m	„35"	Reducing cross - without vent	6,30	
8382/x04	1/4"x1/4"x1/4" SAE m x 1/4" SAE f	„36"	Cross - without vent	13,80	
RAFL-1/4"	Transition fitting: screwed 1/4" SAE x brazed 1/4" (6,4 mm) ODF			3,30	
RAFL-10MM	Transition fitting: screwed 3/8" SAE x brazed 10 mm ODF			4,70	
ZSERW-9001	tube 6 mm x 1/4" SAE m	„21"	Service valve with a tube, vent and cap	19,70 PLN	
8351/2	tube 6, 8, 10 mm x 1/4" SAE m	-	Vent tip for soldering (without vent)	0,80	
CAP2	1/4" SAE f	-	Cap with gasket for vent	0,40	
8392/A	1/4" SAE f	-	Cap with gasket for vent	0,40	
8392/B	1/4" (6)	-	Cap with a vent tip with a gasket	1,-	
SVCI	Vent with an internal spring			0,30	
8394/B	Vent with an internal spring			0,50	
8395/A1	Vent with a reinforced outer spring (R410A)			0,40	
SVCEHAT	Vent with an outer spring			0,60	
8390/A		„20"	Vent opener	2,70	
ZASLEPKA	Brass cap for cylinder W7/8"-14"			21,20 PLN	
8320/21	1/4" SAE m x 1/8" NPT f	„39"	Shut-off valve with pressure gauge attachment	17,20	
6110/X12	Angle shut-off valve for regulator 3/8" - brazed			14,70	
6110/X13	Angle shut-off valve for regulator 3/8" - screw			14,60	
6110/X15	Angle shut-off valve for regulator 1/4" f - screw			13,60	
6110/66	3/4" NPT m x 3/4" SAE m	-	Shut-off valve angle	34,80	

\* Until stock last

# VIBRATION ELIMINATORS AND MUFFLERS

## MUFFLERS TECNAC for discharge gas, brazed - operating pressure up to 42 bar

Code	El. connector	Length [mm]	Diameter [mm]	Power [kW]	Price [EUR]
SDS-500	3/8" (9,8 mm)	189	51	7	<b>12,20</b>
SDS-600	1/2" (12,7 mm)	189	51	10,5	<b>12,80</b>
SDS-700	5/8" (16,0 mm)	189	51	17,5	<b>13,40</b>
SDS-900	7/8" (22,4 mm)	229	76	26 ÷ 35	<b>33,40</b>
SDS-1000	1 1/8" (28,7 mm)	235	76	35 ÷ 53	<b>46,30</b>
SDS-1100	1 3/8" (35,2 mm)	349	76	53 ÷ 88	<b>54,-</b>
SDS-1200	1 5/8" (41,2 mm)	406	102	88 ÷ 175	<b>59,80</b>

## VIBRATION ELIMINATORS CASTEL

Code	Brazed connection	Length [mm]	Operating pressure [bar]	Price [EUR]
7690/M10	10 mm	230	45	<b>17,60</b>
7690/M12	12 mm	230	45	<b>18,60</b>
7690/M15	15 mm	255	45	<b>18,80</b>
7690/5	5/8" (16,0 mm)	255	45	<b>19,80</b>
7690/M18	18 mm	255	45	<b>24,30</b>
7690/7	7/8" (22,4 mm)	290	45	<b>29,80</b>
7690/M28	28 mm	330	45	<b>36,40</b>
7690/11	1 3/8" (35,2 mm)	375	45	<b>59,80</b>
7690/M42	42 mm	430	45	<b>83,40</b>
7690/17	2 1/8" (54,4 mm)	510	40	<b>130,-</b>
7690/M64	64 mm	690	35	<b>281,-</b>
7690/24	3" (76,9 mm)	690	35	<b>331,-</b>
7690/28	3 1/2" (89,0 mm)	710	25	<b>441,-</b>
7690/34	4 1/4" (108,0 mm)	710	25	<b>540,-</b>

# PRESSURE REGULATORS

## LIQUID FLOW SWITCH Danfoss

Code	Description	Price [PLN]
061H4000	FQS - U30G	467,-

## PRESSURE REGULATORS Castel, Danfoss

Code	Description	Price [PLN]
034L0045	KVL-22 suction pressure regulator	972,-
034L0051	KVL-28 suction pressure regulator	1 369,-
034L0025	KVP-22 evaporation pressure regulator	1 124,-
034L0031	KVP-28 evaporation pressure regulator	1 716,-
034L0097	KVR-15 condensing pressure regulator	742,-
034L0094	KVR-22 condensing pressure regulator	1 150,-
034L0100	KVR-35 condensing pressure regulator	1 767,-
3136/4	Pressure difference regulator (only with KVR) (1/2" brazed)	25,60 EUR
020-1136	NRD Pressure difference regulator (only with KVR)	384,-

## MAIN VALVES Danfoss pressure and temperature regulation by remote controls

Code	Pressure connection	Price [PLN]
ICS-027H2044	Main valve ICS1 25-15	2 072,-
027B0921	CVP pilot valve from 4-28 bar	1 420,-

## MAIN VALVES CAEN controlled by pilot controls

Code	Description	Pressure connection	Kv [m3/h]	Price [EUR]
MPT-1 DN20	Main control valve	DN20 (3/4")	6	297,-
MPT-1 DN25	Main control valve	DN25 (1")	9	362,-
MPT-1 DN32	Main control valve	DN32 (1.1/4")	16	690,-
MPT-1 DN40	Main control valve	DN40 (1.1/2")	29	746,-
MPT-1 DN50	Main control valve	DN50 (2")	40	881,-
MPT-1 DN65	Main control valve	DN65 (2.1/2")	70	1 422,-
CPV-H	Pressure pilot for MPT valves, setting 4 ÷ 25 bar			222,-

# PRESSURE REGULATORS

## SHUT-OFF AND CHECK VALVES CAEN

Code	Description	Pressure connection	Kv [m3/h]	Price [EUR]
NTA-CR DN32	Angle shut-off and check valve	DN32 (1.1/4")	6	<b>176,-</b>
NTA-CR DN40	Angle shut-off and check valve	DN40 (1.1/2")	9	<b>183,-</b>
NTA-CR DN50	Angle shut-off and check valve	DN50 (2")	16	<b>228,-</b>
ATA-CR DN65	Angle shut-off and check valve	DN65 (2.1/2")	29	<b>315,-</b>

## MIXING VALVES FOR REGULATING OIL TEMPERATURE CAEN

Code	Description	Pressure connection	Kv [m3/h]	Price [EUR]
RTO DN25	Thermostatic mixing valve +54°C	DN25 (1")	20,2	<b>508,-</b>
RTO DN40	Thermostatic mixing valve +54°C	DN40 (1.1/2")	32,5	<b>866,-</b>

## PRESSURE CONTROLLED WATER VALVES Castel

Code	Pressure connection	Price [EUR]
3210/04	1/2" FPT	<b>109,-</b>
3210/06	3/4" FPT	<b>113,-</b>

## MACHANICAL THERMOSTATS Danfoss, Ranco

Code	Description	Price [EUR]
060H1503	UT-72 (-30°C ÷ +30°C) AC11: 2,5 A Switching differential: 2,3 K	<b>120,- PLN</b>
O16-H6936	Ranco thermostats with capillary 2,0 m (-5°C ÷ +25°C)	<b>41,40</b>

# CONTROLLES







## ELECTRONIC CONTROLLERS, THERMOMETERS, TEMPERATURE REGULATORS

Manufacturer	Code	Type	Functions	Relay outputs	Inputs		Power supply	Price [EUR]
					Sensors	Digital		
<b>PANEL MOUNTED CONTROLLERS</b>								
 TM  EV3  EVK	TM-103A-230V	<b>TM 103A</b>	Electronic thermometer	-	1 x NTC (included)	-	230 V AC	<b>52,50</b>
	EV3-X21N7VX	<b>EV3 X21</b>	Cooling/heating thermostat	1	1 x NTC/PTC	1	230 V AC	<b>27,60</b>
	EV3-401P7	<b>EV3 401</b>	Cooling/heating thermostat; TTL port		1 x NTC/PTC/ Pt1000	-	230 V AC	<b>33,80</b>
	EV3-411M7	<b>EV3 411</b>	Cooling/heating thermostat	1	1 x Pt100/Pt1000/ K/J/ 0(2)-10V, 0(4)-20 mA	1	230 V AC	<b>55,60</b>
	EV3-222N7	<b>EV3 222</b>	Refrigeration controller (compressor, heaters); TTL port	2	2 x NTC/PTC	1	230 V AC	<b>44,40</b>
	EV3-402P7	<b>EV3 402</b>	Cooling/heating thermostat; TTL port	2	1 x NTC/PTC/ Pt1000	1	230 V AC	<b>49,30</b>
	EV3-B23N7VX	<b>EV3 B23</b>	Refrigeration controller (compressor, heaters, fans)	3	2 x NTC/PTC	1	230 V AC	<b>35,80</b>
EVK-213N2VXBS	<b>EVK 213</b>	Refrigeration controller (compressor, heaters, fans); TTL port	3	2 x NTC/PTC	1	12 V AC/DC	<b>56,30</b>	




## ELECTRONIC CONTROLLERS, THERMOMETERS, TEMP. REGULATORS - continued

Manufacturer	Code	Type	Functions	Relay outputs	Inputs		Power supply	Price [EUR]	Price [PLN]
					Sensors	Digital			
<b>PANEL MOUNTED CONTROLLERS</b>									
  <b>DANFOSS</b>  	080G3454	<b>ERC 211</b>	Cooling/heating thermostat	1	1 x Pt1000/ NTC/PTC	1	230 V AC	-	<b>164,-</b>
	080G3458	<b>ERC 213</b>	Refrigeration controller (compressor, heaters, fans)	3	2 x Pt1000/ NTC/PTC	2	230 V AC	-	<b>226,-</b>
	084B8522	<b>EKC 202B</b>	Refrigeration controller (compressor, heaters, fans)	3	2 x Pt1000/ NTC/PTC	1	230 V AC	-	<b>398,-</b>
	084B8523	<b>EKC 202C</b>	Refrigeration controller (compressor, heaters, fans, alarm)	4	2 x Pt1000/ NTC/PTC	1	230 V AC	-	<b>427,-</b>
<b>DIN RAIL MOUNTED CONTROLLERS</b>									
<b>EVCO</b>  	EV6-421P7VHBS	<b>EV6 421</b>	Cooling/heating thermostat	1	1 x NTC/PTC	1	230 V AC	<b>68,60</b>	-
	EV6-412P7VXBS	<b>EV6 412</b>	Cooling/heating thermostat; Independent or dependent outputs; TTL port	2	1 x NTC/PTC	-	230 V AC	<b>72,50</b>	-
	EV6-223P7VXBS	<b>EV6 223</b>	Refrigeration controller (compressor, heaters, fans)	3	2 x NTC/PTC	1	230 V AC	<b>76,90</b>	-
<b>DANFOSS</b>  	084B4164	<b>EKC 302D</b>	Refrigeration controller (compressor, heaters, fans)	4	3 x Pt1000/ NTC/PTC	2	230 V AC	-	<b>537,-</b>

# CONTROLLES





## COMPRESSOR PACK CONTROLLERS

Manufacturer	Code	Type	Outputs		Installation	Power supply	Price [PLN]
			Relay	Analog			
 <b>DANFOSS</b>	080G0289	<b>AK-PC 351</b>	6	2	DIN	24 V AC/DC	<b>1 380,-</b>
	080G0283	<b>AK-PC 551</b>	8	2	DIN	24 V AC/DC	<b>2 243,-</b>

## PROGRAMMING KEY FOR COPYING SETTINGS



Code	Description	Price [EUR]
 EVKEY*	Programming key for copying the settings of EVCO controllers for series: EVK, EV6 i C-PRO	<b>30,30</b>
 EVPS*	Power supply to EVKEY, EVKEY10 i EVIF20TRX enables copying of settings without connecting the controller to the power supply	<b>29,50</b>

\* Until stock last

# ACCESSORIES FOR CONTROLLERS



## TEMPERATURE SENSORS

Manufacturer	Code	Type	Type	Description	Dimension [mm]	Range [°C]	Price [EUR]	Price [PLN]
EVCO	EVT PN615F200	<b>NTC-1.5M</b>	NTC	Cable length 1,5 m	ø6 x 15	-40 ÷ +110	<b>2,30</b>	-
EVCO	EVT PNW15F200	<b>NTC-1.5M-IP68</b>	NTC	IP68, cable length 1,5 m	ø5 x 20	-40 ÷ +110	<b>5,50</b>	-
EVCO	EVT PN530F202*	<b>EVT PN530F202</b>	NTC	Fast sensor IP67, cable length 3 m (e.g. superheat sensor to EVDRIVE03)	ø4 x 40	-50 ÷ +110	<b>11,40</b>	-
ELIWELL	SN8DEC11502A0**	<b>SN8DEC11502A0</b>	NTC	Sensor IP67, cable length 1,5 m	ø4 x 40	-50 ÷ +110	-	<b>16,70</b>
DANFOSS	084B4403	<b>EKS 211</b>	NTC	IP67, cable length 1,5 m	ø8 x 30	-40 ÷ +80	-	<b>29,50</b>
DANFOSS	080G0205	<b>ACCPBT</b>	NTC	IP68, superheat sensor to EKE; cable length 1,5 m	ø6 x 40	-40 ÷ +120	-	<b>37,-</b>
EMERSON	804489	<b>TP1-NP3</b>	NTC	IP68, superheat sensor to EXD; cable length 3 m	ø4 x 40	-40 ÷ +120	<b>26,50</b>	-
EVCO	EVT PP815S200	<b>PTC-1.5M</b>	PTC	Cable length 1,5 m	ø6 x 40	-50 ÷ +120	<b>7,20</b>	-
EVCO	EVT PPW30F200	<b>PTC-3M-IP68</b>	PTC	IP68, cable length 3 m	ø5 x 20	-50 ÷ +120	<b>8,80</b>	-
DANFOSS	084N1178	<b>EKS 111</b>	PTC	IP67, cable length 1,5 m	ø6 x 30	-55 ÷ +150	-	<b>58,20</b>
EVCO	EVT PM630F200	<b>Pt 1000</b>	Pt1000	IP68, cable length 3 m	ø5 x 20	-50 ÷ +110	<b>12,-</b>	-
DANFOSS	084N0036	<b>AKS 12</b>	Pt1000	IP67, cable length 1,5 m	ø5,8 x 40	-40 ÷ +80	-	<b>136,-</b>
DANFOSS	084N0003	<b>AKS 11</b>	Pt1000	Surface ,IP67, cable length 3,5 m		-40 ÷ +100	-	<b>144,-</b>
EVCO	EVT PC815V300	<b>PT100-350</b>	Pt100	Cable length 1,5 m	ø6 x 100	-50 ÷ +350 cable for +250	<b>38,-</b>	-

\* Until stock last

\*\* SPECIAL OFFER until stocks last

## HYGROMETERS



Manufacturer	Code	Type	Type	Description	Dimension [mm]	Range [°C]	Price [EUR]
EVCO	EVHP503	<b>EVHP503</b>	4-20 mA	Transducer, power supply 8 - 24 V DC, cable length 1,5 m	ø6 x 185	0 -100% RH	<b>80,80</b>

# ACCESSORIES FOR CONTROLLERS

## PRESSURE TRANSDUCERS



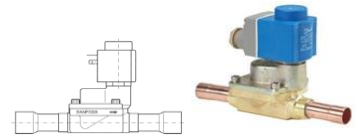
Manufacturer	Code	Type	Technical data							Price [EUR]	Price [PLN]
			Power supply	Electric connection	Output signal	Pressure connection	Pressure range [bar]		IP		
							man.	abs.			
EMERSON	805350	<b>PT5N-07M</b>	7..33 Vdc	selection below	4-20 mA	SAE 1/4" fem	-0,8 ÷ 7	0,2 ÷ 8	67	<b>105,-</b>	-
DANFOSS	060G2044	<b>AKS 33</b>	10..30 Vdc	cable gland	4-20 mA	SAE 1/4" mal	-1 ÷ 9	0 ÷ 10	65	-	<b>1 293,-</b>
ELIWELL	TD320009B	<b>TD320009B</b>	7..33 Vdc	cable 2 m	4-20 mA	SAE 1/4" fem	-1 ÷ 9	0 ÷ 10	67	<b>59,-</b>	-
	TD320030B	<b>TD320030B</b>					0 ÷ 30	1 ÷ 31		<b>59,-</b>	-
	TD320050B	<b>TD320050B</b>					-1 ÷ 50	1 ÷ 51		<b>59,-</b>	-
DANFOSS	060G5961	<b>AKS 32R</b>	4,75..8 Vdc	cable gland	10-90% Vz	SAE 1/4" fem	-1 ÷ 12	0 ÷ 13	65	-	<b>783,-</b>
	060G1036	<b>AKS 32R *</b>		selection below		SAE 1/4" mal	-1 ÷ 12	0 ÷ 13		-	<b>783,-</b>
	060G0090	<b>AKS 32R</b>		selection below		SAE 1/4" mal	-1 ÷ 34	0 ÷ 35		-	<b>783,-</b>
DANFOSS	060G1034		Connection to AKS 32R with wire 5 m							-	<b>125,-</b>
DANFOSS	060G0008		Electric connector PG9 for AKS 32R without wire							-	<b>40,60</b>
EMERSON	804803	<b>PT4-M15</b>	Electric connector for PT5N-07M with wire 1,5 m							<b>9,50</b>	-

\* Until stock last

## TRANSFORMERS

Code	Technical data			Price [EUR]
	Primary voltage	Secondary voltage	Power	
<b>TZB20/ZZ</b>	230 V	24 V	20 VA	<b>25,-</b>
<b>PSS 20N</b>	230 V	24 V	21 VA	<b>35,40</b>
<b>ECT-323</b>	230 V	24 V	25 VA	<b>29,50</b>
<b>ECT-623</b>	230 V	24 V	60 VA	<b>33,40</b>

# SOLENOID EXPANSION VALVES



## SOLENOID EXPANSION VALVES

Code	Type	Description	Price [PLN]
068F5212	<b>AKV 10P2</b>	Solenoid expansion valves without coil	<b>705,-</b>
068F5213	<b>AKV 10P3</b>	Solenoid expansion valves without coil	<b>705,-</b>
068F4044	<b>AKV 10PS4</b>	Solenoid expansion valves without coil	<b>705,-</b>
068F4045	<b>AKV 10PS5</b>	Solenoid expansion valves without coil	<b>705,-</b>
068F4046	<b>AKV 10PS6</b>	Solenoid expansion valves without coil	<b>705,-</b>
068F4047	<b>AKV 10PS7</b>	Solenoid expansion valves without coil	<b>705,-</b>
068F4048	<b>AKV 10PS8</b>	Solenoid expansion valves without coil	<b>705,-</b>
068F5001	<b>AKV 15-1</b>	Solenoid expansion valves without coil	<b>1 952,-</b>
068F5006	<b>AKV 15-2</b>	Solenoid expansion valves without coil	<b>1 952,-</b>
068F5010	<b>AKV 15-3</b>	Solenoid expansion valves without coil	<b>1 952,-</b>
068F5016	<b>AKV 15-4</b>	Solenoid expansion valves without coil	<b>1 952,-</b>
018F6801		Valve coil AKV 230 V/15 W/50 Hz for AK-CC	<b>199,-</b>
018F6781		Valve coil AKV 230 V direct current for EKC-414, AKC 72 A	<b>173,-</b>
018F6732		Valve coil AKV 10P 230 V/17 W/50 H for AK-CC	<b>176,-</b>



## ELECTRONIC CONTROLLER OF SOLENOID EXPANSION VALVES

Code	Type	Description	Price [PLN]
084B4081	<b>AK-CC 55 Compact</b>	Cold room and superheat controller without display for electron. solenoid or thermostatic expansion valve	<b>1 568,-</b>
084B4083	<b>AK-CC 55 Single Coil UI</b>	Cold room and superheat controller with display for solenoid expansion valve	<b>2 288,-</b>
084B4076	<b>AK-UI55 Set</b>	Display for AK-CC 55 with buttons, panel mounting	<b>321,-</b>
084B4078		Connecting cable RJ12 to display AK-UI55 Set, cable 3 m	<b>57,60</b>

# ELECTRONIC STEPPER EXPANSION VALVES + CONTROLS



## SETS of ETS electronic stepper expansion valves with controllers

Code/Description	Set contents	Price [PLN]
D-ZKN-Z-ETS12C-W-M	Electronic stepper expansion valve Colibri ETS 12C with wire Superheat controller EKE 1A with display MMIGRS2 and cable Pressure transducer AKS 32R with plug Superheat temperature sensor ACCPBT	<b>3 872,30</b>
D-ZKN-Z-ETS12C-BW-M	Electronic stepper expansion valve Colibri ETS 12C with wire Superheat controller EKE 1A without display Pressure transducer AKS 32R with plug Superheat temperature sensor ACCPBT	<b>2 967,60</b>
D-ZKN-Z-ETS24C-W-M	Electronic stepper expansion valve Colibri ETS 24C with wire Superheat controller EKE 1A with display MMIGRS2 and cable Pressure transducer AKS 32R with plug Superheat temperature sensor ACCPBT	<b>4 134,30</b>
D-ZKN-Z-ETS24C-BW-M	Electronic stepper expansion valve Colibri ETS 24C with wire Superheat controller EKE 1A without display Pressure transducer AKS 32R with plug Superheat temperature sensor ACCPBT	<b>3 229,60</b>
D-ZKN-Z-ETS6-32-W-M	Electronic stepper expansion valve ETS 6-32 with coil Superheat controller EKE 1A with display MMIGRS2 and cable Pressure transducer AKS 32R with plug Superheat temperature sensor ACCPBT Input and output connections	<b>3 268,70</b>
D-ZKN-Z-ETS6-32-BW-M	Electronic stepper expansion valve ETS 6-32 with coil Sterownik przegrzania EKE 1A without display Pressure transducer AKS 32R with plug Superheat temperature sensor ACCPBT Input and output connections	<b>2 364,-</b>
D-ZKN-Z-ETS6-40-W-M	Electronic stepper expansion valve ETS 6-40 with coil Superheat controller EKE 1A with display MMIGRS2 and cable Pressure transducer AKS 32R with plug Superheat temperature sensor ACCPBT Input and output connections	<b>3 268,70</b>
D-ZKN-Z-ETS6-40-BW-M	Electronic stepper expansion valve ETS 6-40 with coil Sterownik przegrzania EKE 1A without display Pressure transducer AKS 32R with plug Superheat temperature sensor ACCPBT Input and output connections	<b>2 364,-</b>

# ELECTRONIC STEPPER EXPANSION VALVES + CONTROLS



## ELECTRONIC STEPPER EXPANSION VALVES

Code	Type	Description	Price [PLN]
034G7501	ETS 12C	Electronic stepper expansion valve Colibri, straight brazed connection 16 x 16 mm	1 158,-
034G7902	ETS 24C	Electronic stepper expansion valve Colibri, straight brazed connection 22 x 22 mm	1 420,-
034G7702	ETS 50C	Electronic stepper expansion valve with built-in sight glass, straight brazed connection 28 x 28 mm	2 020,-
034G5055	ETS 6-32	Electronic stepper expansion valve (without coil), angle brazed connection 5/16" x 5/16"	500,-
034G5065	ETS 6-40	Electronic stepper expansion valve (without coil), angle brazed connection 5/16" x 5/16"	500,-
034G5145	Cewka ETS 6	Coil for valves ETS 6; cable length 1,5 m	184,-
034G7073	-	PVC cable with connection for ETS, ETS Colibri and CCMT valves; cable length 2 m; IP67	148,-




## ELECTRONIC STEPPER VALVE CONTROLS

Code	Type	Description	Price [PLN]
080G5300	EKE 1A	Superheat controller for ETS, ETS Colibri, CCMT stepper valves; without display; power supply 24 V AC/DC	801,-
080G5350	EKE 1B	Superheat controller for ETS, ETS Colibri, CCMT stepper valves; without display; with Modbus; power supply 24 V AC/DC	970,-
080G5400	EKE 1C	Superheat controller for ETS, ETS Colibri, CCMT stepper valves; without display; with Modbus i CAN Bus; power supply 24 V AC/DC	1 340,-
080G0294	MMIGRS2	Additional LCD display with buttons, panel mounting	879,-
080G0075	ACCCBI	Display connection cable MMIGRS2; cable length 1,5 m	25,70

# ELECTRONIC STEPPER EXPANSION VALVES + CONTROLS



## ELECTRONIC STEPPER VALVE CONTROLS + ACCESSORIES

Code	Description	Price [EUR]
VGRAPH <sup>1)</sup> *	 Display with buttons panel or wall mounting dimensions 118 mm x 110 mm power supply from the controller EVDRIVE03	<b>196,-</b>
CPVP*	Vtouch and Vgraph display frame black	<b>7,50</b>
CPVW00*	Mounting box on or in the wall of Vtouch and Vgraph displays, dimensions 138 x 116 x 48 mm	<b>12,40</b>
27000007*	Gasket for Vtouch and Vgraph (provides IP65 display front)	<b>1,60</b>

<sup>1)</sup> One of the selected devices is necessary for programming EVDRIVE03 without a display

\* Until stock last



# ELECTRONIC STEPPER EXPANSION VALVES + CONTROLS



Description	Set contents	Price [EUR]
Controller set EXD-SH1	Superheat controller EXD-SH1 with display and connections Pressure transducer with 1,5 m cable and two temperature sensors with 3 m cable Transformer 230 V/24 V 25 VA	<b>397,20</b>
Controller set EXD-SH2	Superheat controller EXD-SH2 with display and connections Pressure transducer with 1,5 m cable and two temperature sensors with 3 m cable Transformer 230 V/24 V 60 VA	<b>463,60</b>



## ELECTRONIC STEPPER EXPANSION VALVES

Code	Description	Price [EUR]
EX4-M21	Electronic stepper expansion valve straight brazed connection 10 x 16 mm	<b>261,-</b>
EX5-U21	Electronic stepper expansion valve straight brazed connection 16 x 22 mm	<b>261,-</b>
EX6-M21	Electronic stepper expansion valve straight brazed connection 22 x 28 mm	<b>319,-</b>
EX7-M21	Electronic stepper expansion valve straight brazed connection 28 x 35 mm	<b>466,-</b>
EXV-M60	Cable 6m with connection to stepper valves	<b>19,90</b>



## ELECTRONIC STEPPER VALVE CONTROLS






Code	Description	Price [EUR]
EXD-SH1	Superheat controller for EX, FX and CX el. stepper expansion valves with display, 24 V AC/DC power supply	<b>194,-</b>
EXD-SH2	Superheat controller for two EX, FX and CX el. stepper expansion valves with display, 24 V AC/DC power supply	<b>230,-</b>
EXD-M03	Sensor and power connection, 12-core 3 m cable, for EXD controllers	<b>32,70</b>
ECC-N30*	Cable for ECD displays, 3 m, RJ45/RJ45	<b>5,80</b>

\* Until stock last

# FAN SPEED CONTROLLERS






## FAN SPEED CONTROLLERS

Manufacturer	Code	Type	Power supply	Max. current	Description	Price [EUR]	Price [PLN]
 Danfoss	061H3140	XGE 4C	1-phase	3	Condensing pressure regulator, housing IP65 <ul style="list-style-type: none"> <li>• set point 10 ÷ 25 bar</li> <li>• adjustment range 6 bar</li> <li>• pressure connection 1/4" NPT fem</li> </ul>	-	<b>470,-</b>
	061H3160	XGE 6C		3	Condensing pressure regulator, housing IP65 <ul style="list-style-type: none"> <li>• set point 22 ÷ 39 bar (R410A)</li> <li>• adjustment range 7 bar</li> <li>• pressure connection 1/4" NPT fem</li> </ul>	-	<b>470,-</b>
 Alco	FSY-42S	FSY-42S		4	Condensing pressure regulator, housing IP65 <ul style="list-style-type: none"> <li>• set point 9,2 ÷ 21,2 bar</li> <li>• adjustment range 3,8 bar</li> <li>• pressure connection 1/4" NPT fem</li> </ul> requires additional FSF-N15 cable (see accessories below)	<b>104,-</b>	-
 Danfoss	061H3005	RGE-Z1N4-7DS		4	Condensing pressure regulator, housing IP54 <ul style="list-style-type: none"> <li>• set point 8 ÷ 28 bar</li> <li>• adjustment range 4 bar</li> <li>• pressure connection 1/4" NPT fem</li> </ul>	-	<b>824,-</b>
	061H3008	RGE-Z1P4-7DS		6	Condensing pressure regulator, housing IP54 <ul style="list-style-type: none"> <li>• set point 8 ÷ 28 bar</li> <li>• adjustment range 4 bar</li> <li>• pressure connection 1/4" NPT fem</li> </ul>	-	<b>1 150,-</b>
	061H3009	RGE-Z1Q4-7DS		8	Condensing pressure regulator, housing IP54 <ul style="list-style-type: none"> <li>• set point 8 ÷ 28 bar</li> <li>• adjustment range 4 bar</li> <li>• pressure connection 1/4" NPT fem</li> </ul>	-	<b>1 378,-</b>
 Micronova	ADR-70-DP	ADR 70		7	Electronic condensing pressure/liquid temperature controller in IP55 housing; additionally requires a pressure transducer or a temperature sensor; requires display for programming (see accessories below)	<b>226,-</b>	-
 Danfoss	061H3006	RGE-X3R4-7DS	3-phase	5	Condensing pressure regulator, housing IP54 <ul style="list-style-type: none"> <li>• set point 8 ÷ 28 bar</li> <li>• adjustment range 4 bar</li> <li>• pressure connection 1/4" NPT fem</li> </ul>	-	<b>3 364,-</b>




# FAN SPEED CONTROLLERS



## FAN SPEED CONTROLLERS – continued

Manufacturer	Code	Type	Power supply	Max. current	Description	Price [EUR]
 Micronova	ADR-80-DP	ADR 80	3-phase	8	Condensing pressure/liquid temperature controller; additionally requires a pressure transducer or a temperature sensor	housed IP55 with built-in LCD display <b>717,-</b>
	ADR-230-DP	ADR 230		23	Condensing pressure/liquid temperature controller; additionally requires a pressure transducer or a temperature sensor	housed IP55 with built-in LCD display <b>765,-</b>
 Eliwell	FA53371500	FASEC 33	1-phase	7	Liquid temperature controller • set point: 0°C ÷ +60°C • adjustment range 3 K ÷ 31 K with PTC temperature sensor and LC filter; mounting hole dimension 45 x 92 mm	<b>87,20</b>
 Ziehl Abegg	303588	P-E-4		4	Adjustable housed fan speed controller IP54	<b>152,-</b>

## ACCESSORIES

Manufacturer	Code	Type	Description	Price [EUR]
 Micronova	LCD2000	LCD 2000	LCD display for ADR with connecting cable 0,9 m	<b>105,-</b>
 Micronova	ADR-EX	ZPK01	Extension card for ADR 80 (DP) and 230 (DP); additional functions for ADR: • Disabling external signal control; DI input • ADR alarm signaling; DO output; IP22	<b>61,-</b>
 Alco	FSF-N15	FSF-N15	1,5 m cable with connection and EMV filter for FSY-42S	<b>28,90</b>

# CONTROL CABINETS

## CONTROL CABINETS



Code	Type	Description	Price [PLN]
080Z3220	<b>AK-RC 111*</b>	OPTYMA controller for cold rooms (1-phase) with two EKS 211 temperature sensors	<b>1 095,-</b>
080Z3221	<b>AK-RC 113</b>	OPTYMA controller for cold rooms (3-phase) 4,5 A ÷ 6,3 A with two EKS 211 temperature sensors	<b>3 285,-</b>
080Z3222	<b>AK-RC 103</b>	OPTYMA controller for cold rooms (3-phase) 7 A ÷ 10 A with two EKS 211 temperature sensors	<b>3 285,-</b>

\* Until stock last

# MOUNTING MATERIALS

## INSULATION MATERIALS KAIMANN



Code	Inner dia. insulation [mm]	Insulation thickness [mm]	[m]/carton <sup>1)</sup>	Price [PLN]/[m]
			length 2 m	
IZ-OTUL-ST-6X9-M	6	9	360	<b>2,20</b>
IZ-OTUL-ST-10X9-M	10	9	320	<b>2,40</b>
IZ-OTUL-ST-12X9-M	12	9	280	<b>2,60</b>
IZ-OTUL-ST-15X9-M	15	9	240	<b>2,60</b>
IZ-OTUL-ST-18X9-M	18	9	190	<b>2,80</b>
IZ-OTUL-ST-22X9-M	22	9	156	<b>3,10</b>
IZ-OTUL-ST-28X9-M	28	9	124	<b>3,50</b>
IZ-OTUL-ST-12X13-M	12	13	172	<b>3,60</b>
IZ-OTUL-ST-15X13-M	15	13	154	<b>4,-</b>
IZ-OTUL-ST-18X13-M	18	13	130	<b>4,20</b>
IZ-OTUL-ST-22X13-M	22	13	110	<b>4,70</b>
IZ-OTUL-ST-28X13-M	28	13	86	<b>4,90</b>
IZ-OTUL-ST-35X13-M	35	13	76	<b>6,-</b>
IZ-OTUL-ST-42X13-M	42	13	56	<b>6,90</b>
IZ-OTUL-ST-54X13-M	54	13	46	<b>10,-</b>
IZ-OTUL-ST-64X13-M	64	13	40	<b>11,30</b>
IZ-OTUL-ST-76X13-M	76	13	34	<b>13,80</b>
IZ-OTUL-ST-114X13-M	114	13	28	<b>25,60</b>
IZ-OTUL-ST-15X19-M	15	19	86	<b>7,30</b>
IZ-OTUL-ST-18X19-M	18	19	78	<b>7,60</b>
IZ-OTUL-ST-22X19-M	22	19	74	<b>8,50</b>
IZ-OTUL-ST-28X19-M	28	19	58	<b>10,10</b>
IZ-OTUL-ST-35X19-M	35	19	48	<b>11,90</b>
IZ-OTUL-ST-42X19-M	42	19	40	<b>13,50</b>
IZ-OTUL-ST-54X19-M	54	19	30	<b>18,40</b>
IZ-OTUL-ST-64X19-M	64	19	28	<b>22,10</b>
IZ-OTUL-ST-76X19-M	76	19	28	<b>25,60</b>
IZ-OTUL-ST-89X19-M	89	19	22	<b>28,40</b>

<sup>1)</sup> Indicative quantities. The actual quantity of goods may differ from the stated amount.

# MOUNTING MATERIALS

## INSULATION MATS ARMAFLEX, TAPES, ADHESIVES



Code	Insulation thickness [mm]	[m]/coil 1 m wide	Price [PLN]
IZ-MATA-13-M	13	14	<b>37,40</b>
IZ-MATA-19-M	19	10	<b>54,-</b>
IZ-MATA-25-M	25	8	<b>68,90</b>
IZ-MATA-32-M	32	6	<b>87,40</b>
IZ-MATA-SP-10-M	10 self-adhesive	20	<b>44,90</b>
IZ-MATA-SP-13-M	13 self-adhesive	14	<b>52,20</b>
IZ-MATA-SP-19-M	19 self-adhesive	10	<b>70,20</b>
IZ-TAS-KAUCZ-10M-M	Self-adhesive rubber foam tape 10 mb x 48 mm x 3 mm		<b>17,-</b>
IZ-TAS-KAUCZ-15M-M	Self-adhesive rubber foam tape 15 mb x 48 mm x 3 mm		<b>22,10</b>
IZ-TAS-KAUCZ-15M-96MM-M	Self-adhesive rubber foam tape 15 mb x 96 mm x 3 mm		<b>44,20</b>
IZ-TAS-TEKST-B-M	Reinforced textile self-adhesive tape 50 mb x 48 mm white		<b>22,-</b>
IZ-TAS-TEKST-CZ-M	Reinforced textile self-adhesive tape 50 mb x 48 mm black		<b>22,-</b>
IZ-TAS-TEKST-CZEX-M	Strong adhesive textile tape 50 mb x 50 mm black		<b>28,10</b>
IZ-TAS-ZB-AL-M	Reinforced aluminum self-adhesive tape 45 mb x 50 mm x 50 µm		<b>24,10</b>
IZ-KLEJ-220G-M	KAIFLEX 414 – adhesive for mats and tubes 220 g, can with brush		<b>45,60</b>
IZ-KLEJ-660G-M	KAIFLEX 414 – adhesive for mats and tubes 660 g		<b>81,50</b>
IZ-KLEJ-2.200G-M	KAIFLEX 414 – adhesive for mats and tubes 2200 g		<b>212,-</b>
IZ-FARBA SZARA-M	Kaimann "Kaifinish" paint to protect rubber insulation against UV rays. 0,75 l; RAL 7035		<b>157,-</b>

## SEALING PASTES

Code	Description	Price [EUR]
WM-10001	LEAK LOCK - thread sealing paste (39 ml)	<b>11,80</b>
TR1157.Y.01	SEALUP sealing paste for threaded and socket joints, in a tube (50 ml)	<b>7,60</b>

## BRAZING ACCESSORIES

Code	Description	Price [EUR]
WM-L-BUTLA MAXIG-M	Maxigas cylinder – 610 ml	<b>14,10</b>
WM-L-BUTLA TLEN-M	Oxygen cylinder – 930 ml	<b>24,50</b>
WM-L-TURBO SET 90/SB-M	Turbo Set 90/SB brazing kit (without cylinder)	<b>147,-</b>

# MOUNTING MATERIALS

## BRAZING ALLOYS and accessories Selectarc

Code	Description	Price [PLN]/[kg]
M70-PHOSBRAZ	Brazing alloy, Cu 93%, P 7%, 2x500 mm (kg) (Tt* = 710°C ÷ 805°C)	Highly viscous brazing alloys for standard connections with good fluidity; For brazing: Cu, Mos. <b>142,-</b>
AG20+ PHOSBRAZ	Brazing alloy, Ag 2%, Cu 91%, P 7%, 2x500 mm (kg) (Tt* = 650°C ÷ 800°C)	High-viscosity brazing alloys for larger gaps; 2% and 5% silver content improves plasticity and resistance to cracking; For brazing: Cu, Mos. <b>311,-</b>
AG50+ PHOSBRAZ	Brazing alloy, Ag 5%, Cu 88,4%, P 6,6%, 2x500 mm (kg) (Tt* = 650°C ÷ 770°C)	<b>570,-</b>
5034-BRAZARGENT	Brazing alloy 5034, Ag 34%, Cu 26%, Zn 27%, Sn 3%, 2x500 mm (kg) (Tt* = 630°C ÷ 730°C)	Universal, slow-flowing brazing alloy for medium and larger gaps <1 mm; AG flux is required when brazing brass and steel; For brazing: Cu, Mos, St, StSt <b>3 119,-</b>
5034U-BRAZARGENT	Brazing alloy 5034 coated (25%), Ag 34%, Cu 36%, Zn 27%, Sn 3%, 2x500 mm (kg) (Tt* = 630°C ÷ 730°C)	Universal, slow-flowing brazing alloy in a flux coating for medium and larger gaps <1 mm; For brazing: Cu, Mos, St, StSt <b>2 242,-</b>
5040-BRAZARGENT	Brazing alloy 5040, Ag 40%, Cu 30%, Zn 28%, Sn 2%, 2x500 mm (kg) (Tt* = 650°C ÷ 710°C)	Universal brazing alloy for medium gaps; For brazing: Cu, Mos, St, StSt <b>3 627,-</b>
5040U-BRAZARGENT	Brazing alloy 5040 coated (32%), Ag 40%, Cu 30%, Zn 28%, Sn 2%, 2x500 mm (kg) (Tt* = 650°C ÷ 710°C)	Universal coated brazing alloy for medium gaps; For brazing: Cu, Mos, St, StSt <b>2 586,-</b>
5040TBW-BRAZARGENT	Brazing alloy 5040 TBW, flux 12%, Ag 40%, Cu 30%, Zn 28%, Sn 2%, 2x500 mm (kg)	Universal brazing alloy for medium gaps; Contains flux (in the form of a core inside a tube-shaped rod); For brazing: Cu, Mos, St, StSt <b>3 762,-</b>
5040TBW-BRAZARGENT-3	 2x500 mm (kg) (Tt* = 650°C ÷ 710°C)	<b>3 721,-</b>
5045-BRAZARGENT	Brazing alloy 5045, Ag 45%, Cu 27%, Zn 25%, Sn 3%, 2x500 mm (kg) (Tt* = 640°C ÷ 680°C)	Fast-flowing, low temperature brazing alloy for precisely matched components; For brazing: Cu, Mos, St, StSt <b>4 051,-</b>
5045TBW-BRAZARGENT	Brazing alloy 5045 TBW, flux 12%, Ag 45%, Cu 27%, Zn 25%, Sn 3%, 2x500 mm (kg) (Tt* = 640°C ÷ 680°C)	Fast-flowing, low temperature brazing alloy for precisely matched components; Contains flux (in the form of a core inside a tube-shaped rod); For brazing: Cu, Mos, St, StSt <b>4 134,-</b>
AG Active	AG Active universal flux - paste, 0,2 kg package	<b>56,-</b>



Brazing alloys Selectarc "TBW"

contain flux in the form of a core inside the rod

PRICES OF BRAZING ALLOYS ARE VARIABLE. PLEASE CHECK IN THE CURRENT PRICE LIST AVAILABLE ON OUR WEBSITE.

# MOUNTING MATERIALS

## COPPER CAPILLARY TUBES D 2 mm

Code	Description	Price [EUR]
WM-RK-87A-M	N-W-87 A copper capillary tube 2 x 1/4" SAE length 1000 mm with two straight connections 1/4" SAE	<b>9,50</b>
OK-RK-9011-M	AC-9011 copper capillary tube length 1,5 m with opener (ø 1,5 mm internal)	<b>38,-</b>

## FLEXIBLE CAPILLARY TUBES GOMAX D 2 mm, 4 mm i 6 mm (internal dim.)



Code	Description	Price [EUR]
<b>2 mm</b>		
GX-2W-1000-CZ-PK-M	Flexible black capillary tube 2 mm GOMAX 1000 mm, straight/angle fitting 1/4"SAE	<b>15,20</b>
GX-2W-1000-CZ-PP-M	Flexible black capillary tube 2 mm GOMAX 1000 mm, straight/straight fitting 1/4"SAE	<b>11,90</b>
GX-2W-1000-PO-PK-M	Flexible orange capillary tube 2 mm GOMAX 1000 mm, straight/angle fitting 1/4"SAE	<b>15,20</b>
GX-2W-1000-PO-PP-M	Flexible orange capillary tube 2 mm GOMAX 1000 mm, straight/straight fitting 1/4"SAE	<b>11,90</b>
GX-2W-600-CZ-PK-M	Flexible black capillary tube 2 mm GOMAX 600 mm, straight/angle fitting 1/4"SAE	<b>13,70</b>
GX-2W-600-CZ-PP-M	Flexible black capillary tube 2 mm GOMAX 600 mm, straight/straight fitting 1/4"SAE	<b>10,20</b>
GX-2W-600-PO-PK-M	Flexible orange capillary tube 2 mm GOMAX 600 mm, straight/angle fitting 1/4"SAE	<b>13,70</b>
GX-2W-600-PO-PP-M	Flexible orange capillary tube 2 mm GOMAX 600 mm, straight/straight fitting 1/4"SAE	<b>10,20</b>
<b>4 mm</b>		
GX-4W-600-CZ-PK-M	Flexible black capillary tube 4 mm GOMAX 600 mm, straight/angle fitting 1/4"SAE	<b>14,90</b>
GX-4W-600-CZ-PP-M	Flexible black capillary tube 4 mm GOMAX 600 mm, straight/straight fitting 1/4"SAE	<b>10,90</b>
GX-4W-1000-CZ-PK-M	Flexible black capillary tube 4 mm GOMAX 1000 mm, straight/angle fitting 1/4"SAE	<b>16,90</b>
GX-4W-1000-CZ-PP-M	Flexible black capillary tube 4 mm GOMAX 1000 mm, straight/straight fitting 1/4"SAE	<b>12,80</b>
<b>6 mm</b>		
GX-6W-1000-CZ-PP-M	Flexible black capillary tube 6 mm GOMAX 1000 mm, straight/straight fitting 1/4"SAE	<b>17,90</b>
GX-6W-1000-CZ-PK-M	Flexible black capillary tube 6 mm GOMAX 1000 mm, straight/angle fitting 1/4"SAE	<b>21,80</b>
GX-6W-600-CZ-PK-M	Flexible black capillary tube 6 mm GOMAX 600 mm, straight/angle fitting 1/4"SAE	<b>19,50</b>
GX-6W-600-PO-PP-M	Flexible orange capillary tube 6 mm GOMAX 600 mm, straight/straight fitting 1/4"SAE	<b>15,70</b>



# MOUNTING MATERIALS

## GOMAX MATERIALS FOR DIY

### FLEXIBLE CAPILLARY TUBES D 2 mm, 4 mm and 6 mm (internal dim.)



Code	Description	Price [EUR]
<b>2 mm</b>		
GX-2K-RCZ-0780BC-M	Flexible polyamide hose, inside diam. 2 mm -45°C/+130°C, black	<b>4,10/m</b>
GX-2K-RPO-0780C-M	Flexible polyamide hose, inside diam. 2 mm -45°C/+130°C, orange	<b>4,10/m</b>
GX-2K-PK-1/4-XCA02C-M	Elbow 90° fitting 1/4" SAE for 2 mm tubes with copper gasket	<b>5,80</b>
GX-2K-PP-1/4-XBA02C-M	Straight fitting 1/4" SAE for 2 mm tubes with copper gasket	<b>2,40</b>
GX-2K-TR/2-XPB0C2-M	"T" Fitting with one female 1/4" SAE in the center with copper gasket	<b>8,20</b>
GX-2K-TR/2-XPB2C4-M	"T" Fitting with one female 1/4" SAE on the side with copper gasket	<b>13,20</b>
GX-2K-TR/3-WPB0C1-M	"T" Fitting	<b>8,10</b>
GX-2K-OTWIER-WTD2Z1-M	Removable valve opener	<b>0,50</b>
<b>4 mm</b>		
GX-4K-RCZ-0789BC-M	Flexible polyamide hose, inside diam. 4 mm -45°C/+130°C, black	<b>4,70/m</b>
GX-4K-RPO-0789C-M	Flexible polyamide hose, inside diam. 4 mm -45°C/+130°C, orange	<b>4,70/m</b>
GX-4K-PK-1/4-XCA02M-M	Elbow 90° fitting 1/4" SAE for 4 mm tubes with copper gasket	<b>6,50</b>
GX-4K-PK-3/8-XCA04M-M	Elbow 90° fitting 3/8" SAE for 4 mm tubes with copper gasket	<b>8,60</b>
GX-4K-PP-1/4-XBA02M-M	Straight fitting 1/4" SAE for 4 mm tubes with copper gasket	<b>2,50</b>
GX-4K-PP-3/8-XBA04M-M	Straight fitting 3/8" SAE for 4 mm tubes with copper gasket	<b>4,70</b>
GX-4K-TR/2-XPB2M4-M	"T" Fitting with one female 1/4" SAE on the side with copper gasket	<b>14,60</b>
GX-4K-TR/3-WPB0M1-M	"T" Fitting 4 mm	<b>10,30</b>
<b>6 mm</b>		
GX-6K-RCZ-0786BC-M	Flexible polyamide hose, inside diam. 6 mm -45°C/+130°C, black	<b>5,80/m</b>
GX-6K-RPO-0786C-M	Flexible polyamide hose, inside diam. 6 mm -45°C/+130°C, orange	<b>5,80/m</b>
GX-6K-PK-1/4-XCA02N-M	Elbow 90° fitting 1/4" SAE for 6 mm tubes with copper gasket	<b>8,30</b>
GX-6K-PK-3/8-XCA04N-M	Elbow 90° fitting 3/8" SAE for 6 mm tubes with copper gasket	<b>11,-</b>
GX-6K-PP-1/4-XBA02N-M	Straight fitting 1/4" SAE for 6 mm tubes with copper gasket	<b>4,60</b>
GX-6K-PP-3/8-XBA04N-M	Straight fitting 3/8" SAE for 6 mm tubes with copper gasket	<b>6,50</b>



# MOUNTING MATERIALS



RXA005



RXA012

## GOMAX TOOLS FOR DIY FLEXIBLE CAPILLARY TUBES

Code	Description	Price [EUR]
WXA004	Polyamide hose cutter 2/4/6 mm	<b>20,10</b>
RXA007	Hand Pliers for capillary hoses fittings 2mm	<b>187,-</b>
RXA005	Hydraulic Pliers for capillary hoses fittings 4 and 6 mm in plastic case	<b>1 608,-</b>
RXA011	Battery hydraulic crimping machine 45 kN for capillary hoses fittings 2/4/6 mm in plastic case (Set includes: crimping machine, battery Li-Ion 18 V 1.5 Ah, battery charger, USB cable and Software (CD), set of dies DN2, DN4 and DN6)	<b>2 803,-</b>
RXA012	Battery hydraulic crimping machine 45 kN for capillary hoses fittings 2/4/6 mm in plastic case + spare Li-Ion 18 V 1.5 Ah battery + DC bench power supply (Set includes: crimping machine, battery Li-Ion 18 V 1.5 Ah, battery charger, USB cable and Software (CD), set of dies DN2, DN4 and DN6, spare Li-Ion 18 V 1.5 Ah battery and DC bench power supply)	<b>4 022,-</b>

# MOUNTING MATERIALS

## MATERIALS FOR DIY

### FLEXIBLE CAPILLARY TUBES D 2 mm (internal dim.)

Code	Description	Price [EUR]
EC-ZL-TR/2-3-141-M *	Tee - 3 tube connections	<b>5,10</b>
EC-ZL-TR/2-2-142-M *	Tee - 2 tube connections, 1 x 1/4" SAE in the center	<b>6,10</b>
EC-ZL-TR/2-2-143-M *	Tee - 2 tube connections, 1 x 1/4" SAE on the side	<b>6,10</b>
EC-ZL-TR/5-144-A-M *	Tee -1 x 1/4" SAE on the side, 1 tube connection 2 mm, 1 tube connection 5 mm	<b>8,10</b>
EC-ZL-CZW/2-145-M *	Cross - 3 tube connections, 1 x 1/4" SAE	<b>11,90</b>
EC-OBC/2-502-M *	EC - 200634 tube cutter 2 mm	<b>6,80</b>
AC-PODKL-7580/2-M	7580/2 copper gasket	<b>0,20</b>

\* Until stock last

### MATERIALS FOR DIY OF TUBES D 5 mm (internal dim.)

Code	Description	Price [EUR]
EC-ERK/5-P-412-M *	Flexible hose (-40°C/+125°C) orange 5 mm x 8 mm	<b>4,70/m</b>
EC-ZL-PRZP/5S-301-M *	Straight, screwed, steel connection 1/4" SAE	<b>4,10/pc.</b>
EC-ZL-PRZP/5Z-201-M *	Straight, crimp, steel connection 1/4" SAE	<b>3,80/pc.</b>
EC-ZL-PRZP/5Z-202-M *	Straight, crimp, copper connection 1/4" SAE	<b>3,20/pc.</b>
EC-ZL-PRZP/5S-341-M *	Straight, screwed, steel connection 3/8" SAE	<b>5,70/pc.</b>
EC-ZL-PRZP/5Z-241-M *	Straight, crimp, steel connection 3/8" SAE	<b>5,20/pc.</b>
EC-ZL-PRZP/5Z-242-M *	Straight, crimp, copper connection 3/8" SAE	<b>4,20/pc.</b>
EC-ZL-PRZK/5S-361-M *	Elbow 90° fitting 90° screwed steel 3/8" SAE	<b>7,60/pc.</b>
EC-ZL-PRZK/5Z-221-M *	Elbow 90° fitting 90° crimp steel 1/4" SAE	<b>4,50/pc.</b>
EC-ZL-PRZK/5Z-222-M *	Elbow 90° fitting 90° crimp copper 1/4" SAE	<b>3,70/pc.</b>
EC-ZL-PRZK/5Z-261-M *	Elbow 90° fitting 90° crimp steel 3/8" SAE	<b>7,-/pc.</b>
EC-ZL-PRZK/5Z-262-M *	Elbow 90° fitting 90° crimp copper 3/8" SAE	<b>5,90/pc.</b>

\* Until stock last

# OILS

Code		Model	Volume [l]	Description	Price [EUR]	Price [PLN]
915110-02	BITZER	BSE 32	1	piston compr. Bitzer, R404A - R134a - R507	<b>30,-</b>	-
915110-04		BSE 32	5	piston compr. Bitzer, R404A - R134a - R507	<b>136,-</b>	-
915110-05		BSE 32	10	piston compr. Bitzer, R404A - R134a - R507	<b>264,-</b>	-
915111-02		BSE 55	1	piston compr. Bitzer, R134a	<b>32,-</b>	-
915111-04		BSE 55	5	piston compr. Bitzer, R134a	<b>140,-</b>	-
915109-04**		B100	10	screwed compr. Bitzer R22	-	<b>338,-</b>
915102-12		B 5.2	1	piston compr. Bitzer, R22	<b>13,-</b>	-
915101-11		B 5.2	5	piston compr. Bitzer, R22	<b>64,-</b>	-
915115-04		BSE 170	5	screwed compr. Bitzer, R404A	<b>211,-</b>	-
915115-05		BSE 170	10	screwed compr. Bitzer, R404A	<b>329,-</b>	-
915124-07*		B 320 SH	1	compact screw compr. Bitzer, R22	<b>38,-</b>	-
915117-07*		B 150 SH	20	screwed compr. Bitzer, R22	<b>466,-</b>	-
915133-01		BVC 32	1	compr. GSD (scroll) Bitzer, R410A	<b>45,-</b>	-
915133-02		BVC 32	5	compr. GSD (scroll) Bitzer, R410A	<b>194,-</b>	-
915125-01		BSE 60K	1	compr. Bitzer, subcritical applications CO <sub>2</sub>	<b>28,-</b>	-
915125-03		BSE 60K	10	compr. Bitzer, subcritical applications CO <sub>2</sub>	<b>238,-</b>	-
915128-02		BSE 85K	1	compr. Bitzer, transcritical applications CO <sub>2</sub>	<b>69,-</b>	-
915128-03		BSE 85K	5	compr. Bitzer, transcritical applications CO <sub>2</sub>	<b>330,-</b>	-
915128-01		BSE 85K	10	compr. Bitzer, transcritical applications CO <sub>2</sub>	<b>644,-</b>	-
120Z0638	DANFOSS	175PZ	1	compr. Maneurop, R404, R407, R134A, R507, R448A, R449A, R452A	-	<b>370,-</b>
120Z0639		175PZ	2,5	compr. Maneurop, R404, R407, R134A, R507, R448A, R449A, R452A	-	<b>757,-</b>
6012.K.01	ERRECOM	POE 32	1	piston compr., R404A, R134A, R407A/B/C/F, R507; metal container	<b>24,90</b>	-
6012.P.01		POE 32	5	piston compr., R404A, R134A, R407A/B/C/F, R507; metal container	<b>107,-</b>	-
6015.K.01		POE 46	1	piston compr. Dorin, R404A, R134A, R407A/B/C/F, R507; metal container	<b>26,40</b>	-
6015.P.01		POE 46	5	piston compr. Dorin, R404A, R134A, R407A/B/C/F, R507; metal container	<b>113,-</b>	-
6020.P.01		POE 170	5	screwed compr., R404A, R134A, R407A/B/C/F, R507; metal container	<b>123,-</b>	-
6065.P.01		46	5	mineral oil, piston compr., R22; metal container	<b>54,90</b>	-
6063.P.P2		POE 85	5	piston compr., R744; plastic container	<b>131,-</b>	-

\* Until stock last

\*\* SPECIAL OFFER until stocks last

# REFRIGERANTS

Code	Description	Price [PLN]/[kg]
FR-R134-KG(12)-M	R134a - 12 kg in cylinder 12 l (reusable cylinders)	<b>191,-</b>
FR-R407C-KG(10,5)-M	R407C - 10,5 kg in cylinder 12 l (reusable cylinders)	<b>233,-</b>
FR-R410A-KG(10)-M	R410A - 10 kg in cylinder 12 l (reusable cylinders)	<b>226,-</b>
FR-R448A-KG(10)-M	R448A - Solstice N40 - 10 kg in cylinder 12 l (reusable cylinders)	<b>304,-</b>
FR-R449A-KG(11)-M	R449A - Opteon XP40 - 11 kg in cylinder 12 l (reusable cylinders)	<b>304,-</b>
FR-R452A-KG(11)-M	R452A - Opteon XP44 - 11 kg in cylinder 12 l (reusable cylinders)	<b>403,-</b>
Price of a cylinder (is not subject to discount)	low pressure cylinders, volume 12 l/50 l high pressure cylinders, volume 12 l	<b>150,-/286,-</b> <b>286,-</b>
OK-ZAŚLEPKA-M	Brass cylinder cap W 7/8"/14	<b>21,20</b>

REFRIGERANT PRICES ARE VARIABLE. PLEASE CHECK THE CURRENT PRICE LIST AVAILABLE ON OUR WEBSITE.

# HEATING CABLES



## FLEXELEC HEATING CABLES - ECONOMICAL constant power 40 W/m, 230 V, silicone insulation

Code	Description	Length [m]	Price [EUR]
FL-KG-40W-1.0-E-M	Heating cable CSC2M, 40 W, 1 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	1,0	<b>7,20</b>
FL-KG-60W-1.5-E-M	Heating cable CSC2M, 60 W, 1,5 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	1,5	<b>7,90</b>
FL-KG-80W-2.0-E-M	Heating cable CSC2M, 80 W, 2 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	2,0	<b>8,60</b>
FL-KG-120W-3.0-E-M	Heating cable CSC2M, 120 W, 3 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	3,0	<b>9,60</b>
FL-KG-160W-4.0-E-M	Heating cable CSC2M, 160 W, 4 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	4,0	<b>10,90</b>
FL-KG-200W-5.0-E-M	Heating cable CSC2M, 200 W, 5 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	5,0	<b>12,40</b>
FL-KG-240W-6.0-E-M	Heating cable CSC2M, 240 W, 6 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	6,0	<b>14,40</b>
FL-KG-280W-7.0-E-M	Heating cable CSC2M, 280 W, 7 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	7,0	<b>15,90</b>
FL-KG-360W-9.0-E-M	Heating cable CSC2M, 360 W, 9 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	9,0	<b>19,20</b>
FL-KG-440W-11.0-E-M	Heating cable CSC2M, 440 W, 11 m heating + 1 m cold, cross-section 4,6x6,8 mm, permitted surface temperature: -70°C up to 200°C	11,0	<b>22,60</b>

## FLEXELEC HEATING CABLES - HEAVY DUTY constant power 40 W/m, 230 V, silicone insulation

Code	Description	Length [m]	Price [EUR]
FL-KG-40W-1.0-CW-M	Heating cable CSC2, 40 W, 1 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	1,0	<b>12,30</b>
FL-KG-60W-1.5-CW-M	Heating cable CSC2, 60 W, 1,5 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	1,5	<b>14,20</b>
FL-KG-80W-2.0-CW-M	Heating cable CSC2, 80 W, 2 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	2,0	<b>15,80</b>
FL-KG-120W-3.0-CW-M	Heating cable CSC2, 120 W, 3 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	3,0	<b>19,80</b>
FL-KG-160W-4.0-CW-M	Heating cable CSC2, 160 W, 4 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	4,0	<b>23,70</b>
FL-KG-200W-5.0-CW-M	Heating cable CSC2, 200 W, 5 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	5,0	<b>27,60</b>
FL-KG-240W-6.0-CW-M	Heating cable CSC2, 240 W, 6 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	6,0	<b>31,40</b>
FL-KG-280W-7.0-CW-M	Heating cable CSC2, 2080 W, 7 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	7,0	<b>33,40</b>
FL-KG-360W-9.0-CW-M	Heating cable CSC2, 360 W, 9 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	9,0	<b>45,-</b>
FL-KG-440W-11.0-CW-M	Heating cable CSC2, 440 W, 11 m heating + 1 m cold, cross-section 5x7 mm, permitted surface temperature: -70°C up to 200°C	11,0	<b>53,-</b>

# HEATING CABLES



## FLEXELEC HEATING CABLES - constant power, 230 V, with metal braid

Code	Description	Power [W/m]	Price [EUR]
FL-KG-FTSM/T-M	Heating cable Flexelec FTSM/T with galvanised copper braid, heating section 60 cm, silicone elastomer insulation, cross-section 4,4 mm, permitted surface temperature: -70°C up to 200°C, for cold room doors	30,0	<b>3,20/m</b>
FL-KG-FTSO/T-M	Heating cable Flexelec FTSO/T with galvanised copper braid, heating section 50 cm, silicone elastomer insulation, cross-section 5,5x7,5 mm, permitted surface temperature: -70°C up to 200°C, for cold room doors	40,0	<b>9,-/m</b>
FL-KGK-FT/KIT0-5-M	tips Flexelec (5 pc.) for FTP0, FTP0/T, FTSO, FTSO/T, FTSM, FTSM/T		<b>8,-</b>
FL-KGK-SILT25-M	Glue for tips Flexelec SILT, 25 g		<b>6,20</b>

## FLEXELEC HEATING CABLES - constant power, 230 V, self-regulating

Code	Description	Power [W/m]	Price [EUR]
FL-KG-FSO/30-2-M	Self-regulating heating cable Flexelec FSO 30, cross-section 9,7 mm x 3,8 mm, max. circuit length 110 m (at 10°C, 20 A) circuit off +65°C, temp. min. -20°C, thermoplastic insulation	30 (at 10°C)	<b>13,10/m</b>
FL-KGK-FS/KIT5-M	tips Flexelec (5 pc.) for FSG, FST, FSO		<b>30,30</b>

## FLEXELEC HEATING BANDS - with earthing

Code	Description	Price [EUR]
FL-GK-OPAS-FCH-10-M	Heating band (crankcase) Flexelec 35 W, 230 V, Ø max 175 mm	<b>14,90</b>
FL-GK-OPAS-FCH-30-M	Heating band (crankcase) Flexelec 45 W, 230 V, Ø max 280 mm	<b>15,90</b>

## HEATING CABLES - constant power 50 W/m, 230 V with metal braid

Code	Description	Price [EUR]
AK-KKG-5238-M*	Standard tip for self-making a heating cable 71050	<b>4,80</b>

\* Until stock last

# OTHER COMPONENTS

## CONDENSATE PUMPS

Code	Description	Price [PLN]
AT/CDP18	Condensate pump – 18 l/h, max. lift height 10 m, 3 W, 100-230 V, 50-60 Hz	<b>284,-</b>
MINI-ORANGE	Mini Orange condensate pump – 12 l/h max. lift height 10 m, 20 W, 230 V, 50 Hz	<b>557,-</b>
MAXI-ORANGE*	Mini Orange condensate pump – 35 l/h max. lift height 10 m, 23 W, 230 V, 50 Hz	<b>658,-</b>

\* Until stock last

## PVC FOIL FOR STRIP CURTAINS (width 20 cm, thickness 2 mm, 50 m in a roll)

Code	Description	Price [PLN]
KB-FOLIA-STAND-M	Standard (-15°C up to +50°C) colour dark blue "+"	<b>15,-/m</b>
KB-FOLIA-POLAR-M	Polar (frost proof) (-25°C up to +30°C) colour light blue "-"	<b>17,20/m</b>
KB-FOLIA-SUP-POLAR-M	Super Polar (frost proof) (-50°C up to +20°C) colour light blue "-"	<b>20,10/m</b>

## FITTINGS FOR STRIP CURTAINS

Code	Description	Price [PLN]
KB-F-WIESZAK-INOX-M	Comb hanger inox 984 mm	<b>61,-</b>
KB-F-PŁYT-20-INOX-M	Fixing plate 200 mm inox set	<b>9,40</b>

# OTHER COMPONENTS

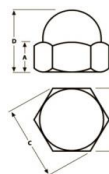
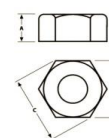


## BLUEMAY nylon mounts

Code	Description	Max. load	Size [mm]	Price [PLN]
BM-M8-M	Nylon rod M8	50 kg	8x1000	<b>59,-</b>
BM-M10-M	Nylon rod M10	80 kg	10x1000	<b>66,50</b>
BM-M12-M	Nylon rod M12	120 kg	12x1000	<b>79,50</b>
BM-M16-M	Nylon rod M16	165 kg	16x1000	<b>133,-</b>



Code	Description	Size [mm]	Price [PLN]
BM-PS-M8-M	Standard washer	8,4x17x1,6	<b>0,60</b>
BM-PS-M10-M	Standard washer	10,5x21x2	<b>0,70</b>
BM-PS-M12-M	Standard washer	13x24x2,5	<b>0,80</b>
BM-PS-M16-M	Standard washer	17x30x3	<b>1,50</b>
BM-PD-M8-M	Load distribution nylon washer (large)	8,5x45x4,5	<b>7,60</b>
BM-PD-M10-M	Load distribution nylon washer (large)	11,5x45x4,5	<b>7,60</b>
BM-PD-M12-M	Load distribution nylon washer (large)	13x51x4,5	<b>8,10</b>
BM-PD-M16-M	Load distribution nylon washer (large)	16,5x70x5	<b>19,40</b>
BM-NS-M8-M	Hexagonal nut	8	<b>1,80</b>
BM-NS-M10-M	Hexagonal nut	10	<b>2,50</b>
BM-NS-M12-M	Hexagonal nut	12	<b>3,-</b>
BM-NS-M16-M	Hexagonal nut	16	<b>4,30</b>
BM-NZP-M8-M	Nut with washer	8	<b>2,-</b>
BM-NZP-M10-M	Nut with washer	10	<b>2,70</b>
BM-NZP-M12-M	Nut with washer	12	<b>3,50</b>
BM-NZP-M16-M	Nut with washer	16	<b>4,80</b>
BM-NN-M8-M	Blind nut	8	<b>3,-</b>
BM-NN-M10-M	Blind nut	10	<b>3,-</b>
BM-NN-M12-M	Blind nut	12	<b>4,50</b>





# HAND TOOLS



and others



80021



MINIMAX



MINICUT



INOX



AUTOMATIK



70033, 70038, 206 FB



TC42PRO

## TUBE CUTTERS

Code	Description	Scope of use	Price	
			[PLN]	[EUR]
MINIMAX	Cutter Rothenberger for tubes Cu	3-28 mm	158,-	-
80021	Cutter	4-22 mm (1/8"-7/8")	-	8,90
70033	Cutter	4-28 mm (1/8"-1 1/8")	-	17,80
MINICUT	Cutter Rothenberger MINICUT 2 PRO for tubes Cu	6-22 mm	113,-	-
TC42PRO	Cutter Rothenberger TC42PRO for tubes Cu, Al, Fe, MSR	6-42 mm	302,-	-
OBC-INOX	Cutter Rothenberger INOX for tubes INOX	6-60 mm	906,-	-
AUTOMATIK1	Cutter Rothenberger for tubes Cu Telescopic with ratchet comp. return	6-67 mm	867,-	-
AUTOMATIK2	Cutter Rothenberger for tubes Cu Telescopic with ratchet comp. return	50-127 mm	1 387,-	-
RATC-10001	Cutter ROBINAIR with pressure spring	1/8"-1 1/8" (4-28 mm)	-	47,-
174-F	Cutter IMPERIAL	3/8"-1 1/8" (10-28 mm)	-	50,80
TC-1000	Cutter IMPERIAL + 2 blades S75015	1/8"-1 1/8"	-	50,80
206-FB	Cutter IMPERIAL 206-FB	10-66 mm (3/8"-2 3/4")	-	122,-
70038	Cutter	5/8"-3" (16-76 mm)	-	95,30



PTC1

## CUTTER FOR CAPILLARY TUBES

Code	Description	Price	
		[PLN]	[EUR]
PTC1	Cutter PTC1 for copper capillaries	-	17,20

# HAND TOOLS



## BLADES FOR CUTTERS

Code	Description	Price/pc.	
		[PLN]	[EUR]
70017D	Rothenberger: Minimax, Minicut, TC42PRO, Automatik1	<b>45,60</b>	-
70057D	Rothenberger AUTOMATIK2	<b>108,50</b>	-
70341	Rothenberger INOX	<b>92,-</b>	-
RATC-11	Robinaair RATC-10001 – titanium	-	<b>9,30</b>
74761	206 FB	-	<b>15,40</b>
70138	70038	-	<b>8,80</b>
70034	70033	-	<b>2,67</b>
80121	80021	-	<b>3,69</b>
S16003162	IMPERIAL TC-1000 i 174F for soft tubes	-	<b>9,06</b>
S75015	IMPERIAL TC-1000 i 174F	-	<b>8,22</b>
S75046	IMPERIAL TC-1000 i 174F for hard and inox tubes	-	<b>11,52</b>



TB-368M



MULTIBEND 180°  
(Rothenberger)

## BENDING MACHINES FOR SOFT COPPER TUBES

Code	Description	Price	
		[PLN]	[EUR]
25402-12	Bender Rothenberger Multibend 180° -12 mm	<b>434,-</b>	-
25404-15	Bender Rothenberger Multibend 180° -15 mm	<b>622,-</b>	-
25406-18	Bender Rothenberger Multibend 180° -18 mm	<b>902,-</b>	-
370-FH	Bender IMPERIAL 1/4", 3/8", 1/2", up to 180°	-	<b>103,-</b>
TB-368M	Bender 6, 8, 10 mm, up to 90°	-	<b>21,70</b>

Soft copper  
and steel



70092 - M



RA - 801E

## SETS (FLANGING TOOL FOR COPPER TUBES)

Code	Description	Price	
		[PLN]	[EUR]
70092-M	Flaring tool 4, 6, 8, 10, 12, 15, 16 mm (double flaring) + cutter 4 ÷ 28 mm	-	<b>63,50</b>
RA-801E	Eccentric flaring ROBINAIR 6, 8, 10, 12, 16 i 18 mm + case	-	<b>135,-</b>

## HAND TOOLS



### FLARING ATTACHMENT FOR COPPER TUBES REELING FLARING TOOL

Code	Description	Price [PLN]
OK-WKL-KPL-METR*	Set of flaring attachments for reeling flaring tool (6, 10, 12, 15, 16 mm)	<b>285,-</b>
ROZW-15*	Flaring attachment for reeling flaring tool (15 mm)	<b>57,-/pc.</b>
ROZW-16*	Flaring attachment for reeling flaring tool (16 mm)	<b>57,-/pc.</b>

\* Until stock last

# HAND TOOLS



COMBI KIT



71600-A-M



Tee extractor set 22103 (COMBI-KIT)

## TOOLS FOR CONNECTING TUBES - EXPANDERS, TEE EXTRACTORS

Code	Description	Price	
		[PLN]	[EUR]
22103	Tee extractor set 12-15-18-22-28 mm	5 489,-	-
WYOBL-28	Tee extractor 28 mm (hook + bell)	1 994,-	-
WYOBL-35	Tee extractor 35 mm 1 3/8" (hook + bell)	2 310,-	-
WYOBL-42	Tee extractor 42 mm (hook + bell)	2 310,-	-
71600-A-M	Hydraulic expander set 10, 12, 15, 16, 18, 22, 28 mm	-	692,-
71600-03	Expander die 3/8"	-	47,40
71600-04	Expander die 1/2"	-	47,40
71600-05	Expander die 5/8"	-	47,40
71600-06	Expander die 3/4"	-	47,40
71600-07	Expander die 7/8"	-	47,40
71600-10M	Expander die 10 mm	-	47,40
71600-12M	Expander die 12 mm	-	47,40
71600-15M	Expander die 15 mm	-	47,40
71600-16M	Expander die 16 mm	-	47,40
71600-18M	Expander die 18 mm	-	47,40
71600-22M	Expander die 22 mm	-	47,40
71600-28M	Expander die 28 mm	-	56,-
WE-35	Expander die 35 mm	-	165,-
WE-42	Expander die 42 mm	-	165,-

# HAND TOOLS



W122, 70082



W124, 127 CO

## WRENCHES FOR VALVES

Code	Description	Price [EUR]
W122	Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (straight)	<b>7,80</b>
70082	Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (straight)	<b>10,80</b>
W124	Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (angle)	<b>9,70</b>
127-CO	IMPERIAL Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (angle)	<b>23,10</b>
127-C	IMPERIAL Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (straight)	<b>23,10</b>



PA6



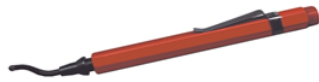
PA11

## FIN COMBS

Kod	Description	Price [EUR]
PA6	Plastic (6 sizes on 1 comb)	<b>11,30</b>
PA11	Steel (universal) with plastic handle	<b>10,40</b>



GRATFIX HSS Nr 1



71685



70085 / 11006



## DEBURRERS

Code	Description	Price	
		[PLN]	[EUR]
70085	Deburber Mastercool inter.-exter. 3/16" - 1 1/2" (5-35 mm)	-	<b>13,40</b>
11006	Deburber Rothenberger inter.-exter. for Cu and Al, 4-36 mm	<b>86,10</b>	-
21655	Deburber Rothenberger GRATFIX HSS with universal blade nr 1	<b>143,-</b>	-
71685	Deburber with metal handle + 1 spare blade	-	<b>22,40</b>
21652	Rothenberger blades for GRATFIX HSS deburrer nr 1	<b>60,90</b>	-
71686-2	Deburber blades 71685 (2 pc.)	-	<b>13,20</b>



WSR-2146



WSR-2149

## MIRRORS

Code	Description	Price [EUR]
WSR-2146	Round telescopic mirror with joint 50 mm	<b>11,90</b>
WSR-2149	Rectangular telescopic mirror with joint 5 x 9 cm	<b>12,70</b>

# MANIFOLDS, PRESSURE GAUGES, HOSES



W5PF80/A6/4

## MANIFOLDS

Code	Description					Price [EUR]
	Number of valves	Connections	Refrigerants	Pressure gauges	Accessories	
<b>Manifolds</b>						
F2PF80/D9/4/K1	2	3x1/4"SAE	R448A, R449A, R452A, R513A	pulse free scales cover 80 mm, glycerine with bottom connection 1.6	sight glass, plastic case	<b>136,-</b>
PF2PF80/A4/5*		3x5/16"SAE	R410A, R32		sight glass, plastic case, 3x hose 1800 mm	<b>218,-</b>
W4PF80/D9/4/K1	3x1/4"SAE i 1x3/8"SAE	R448A, R449A, R452A, R513A	sight glass, plastic case		<b>160,20</b>	
W5PF80/A6/4*	5	3x1/4"SAE i 1x3/8"SAE	R22, R134a, R404A, R407C		sight glass, plastic case, 4x hose 1500 mm	<b>305,-</b>
<b>Manifold bodies (without gauges)</b>						
W1LSM/4	1	2x1/4"SAE	Connection for gauge: 1x1/8"NPT		-	<b>26,70</b>
85102-1/4	2	3x1/4"SAE	Connections for gauges: 2x1/8"NPT		sight glass	<b>40,-</b>
86102-1/4	4	4x1/4"SAE	Connections for gauges: 2x1/8"NPT		sight glass	<b>93,50</b>
<b>Spare parts for manifolds</b>						
WKG-07-H	Spare part for diaphragm manifold – HIGH snob kit					<b>9,30</b>
WKG-07-L	Spare part for diaphragm manifold – LOW snob kit					<b>9,30</b>
WKG-07-V	Spare part for diaphragm manifold – VAC snob kit					<b>9,30</b>
PWP	Complete piston					<b>4,10</b>

\* Until stock last



## ELECTRONIC MEASURING EQUIPMENT (pressure gauge station)

Code	Description	Price [EUR]
FOX-100	FOX digital manifold (pressure gauge station) + temperature sensors + plastic case	<b>337,-</b>

# MANIFOLDS, PRESSURE GAUGES, HOSES



WIKA



MS, PF



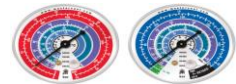
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ML



407/408-C



MNB

## HIGH AND LOW PRESSURE GAUGE WITH CALIBRATION

Code	Description								Price [EUR]
	Range	Glycerine	Panel	Calibration	Manufacturer	Refrigerants	Diameter [mm]	Connection	
31191621	LP	Yes	Yes	No	WIKA	R407C, R134a, R404A/R507, R448A/R449A	63	At the rear 1/4"SAE	<b>126,- PLN</b>
31191865	HP					R407C, R134a, R404A/R507, R448A/R449A			<b>126,- PLN</b>
MS80/15R1/A6	LP	No	No	Yes	WIGAM	R22, R134a, R404A, R407C	80	Bottom 1/8"NPT	<b>13,70</b>
MS80/35R1/A6	HP					R22, R134a, R404A, R407C			<b>13,70</b>
MS80/38R1/A4	LP					R410A, R32			<b>13,70</b>
MS80/53R1/A4	HP					R410A, R32			<b>13,70</b>
PF80/18R1/D9	LP					R448A, R449A, R452A, R513A			<b>22,20</b>
PF80/35R1/A6*	HP					R134a, R404A, R22, R407C			<b>20,70</b>
PF80/38R1/D9	HP					R448A, R449A, R452A, R513A			<b>22,20</b>
407-CB*	LP	No	No	Yes	IMPERIAL	R404A, R407C, R134a	63	Bottom 1/8"NPT	<b>23,-</b>
407-CR*	HP					R404A, R407C, R134a			<b>23,-</b>
BL60/10R1/A6/K1	LP	Yes	No	No	WIGAM	R134a, R404A, R22, R407C	60	Bottom 1/8"NPT	<b>84,90</b>
BL60/30R1/A6/K1	HP					R134a, R404A, R22, R407C			<b>84,90</b>
ML60/18R4FP/E1	LP	Yes	Yes	No	WIGAM	R404A, R448A, R449A, R134a, R452A	60	Bottom 1/4"SAE	<b>19,20</b>
ML60/38R4FP/E1	HP					R404A, R448A, R449A, R134a, R452A			<b>19,20</b>
MNBL-1*	LP	No	No	Yes	MASTER-COOL	R455A, R448A	80	Bottom 1/8"NPT	<b>35,70</b>
MNBH-1*	HP					R455A, R448A			<b>35,70</b>

\* Until stock last

## MANIFOLDS, PRESSURE GAUGES, HOSES

## VACUUM GAUGE WITH ADJUSTABLE REFERENCE INDICATOR

Code	Description	Price [EUR]
PF80/VR1	Pulse free, Ø 80 mm, 1/8" m NPT, accuracy class 1.6; scale from 1000 to - 0,065 mbar	<b>22,80</b>

## REFRIGERANT HOSES (D 6/D 13 mm, operating temp. -30°C/+120°C) AND ACCESSORIES

Code	Description	Price [EUR]
40360	Set of 3 hoses 1500 mm 1/4" SAE, max.operating pressure 41 bar, R134a, R404A (red, yellow, blue)	<b>38,10</b>
40372	Set of 3 hoses 1800 mm 1/4" SAE, max.operating pressure 41 bar, R134a, R404A (red, yellow, blue)	<b>44,50</b>
V/GYSS/4-4/60-R	Red hose with valve 1/4" SAE, operating pressure 56 bar, 1500 mm	<b>27,30</b>
V/GYSS/5-5/60-R	Red hose with valve 5/16" SAE, operating pressure 56 bar, 1500 mm, R410A	<b>27,40</b>
V/GYSS/4-4/60-B	Blue hose with valve 1/4" SAE, operating pressure 56 bar, 1500 mm	<b>27,30</b>
V/GYSS/5-5/60-B	Blue hose with valve 5/16" SAE, operating pressure 56 bar, 1500 mm, R410A	<b>27,40</b>
G-19020	Hose seals 1/4" SAE (10 pc.)	<b>4,60</b>
G-19516	Hose seal 5/16" f SAE (10 pc.)	<b>5,60</b>
D-19302	Hose service valve opener 1/4" f SAE (WIGAM)	<b>0,52</b>
121-RG4-Y	Straight ball valve for hoses 1/4" m SAE x 1/4" f SAE (yellow)	<b>15,90</b>
G-19030	Hose seal 3/8" f SAE	<b>0,72</b>
404/5*	Reducing union 1/4" SAE -fm x 5/16" SAE-m	<b>2,60</b>
404/6*	Reducing union 1/4" SAE -fm x 3/8" SAE-m	<b>2,60</b>
ZOK-1/4"	Angle service valve 1/4"inter. x 1/4" exter. with manual opening	<b>19,50</b>
ZOK-5/16"	Angle service valve with manual hose opening 5/16"	<b>19,50</b>
8320/21	Shut-off valve 1/4" SAE m x 1/8" NPT f with pressure gauge attachment	<b>17,20</b>
G19020/T	Teflon seals for hoses (10 pc.) 1/4" SAE	<b>6,50</b>

\* Until stock last



# RECOVERY, VACUUMING



QS5



RS3D



DIP 402



RS9D



RS15DE



7130/2

## 2-STAGE VACUUM PUMPS & ACC.

Code	Description	Price [EUR]
QS5	Vacuum pump INFICON 2-stage, 142 l/min, 15 microns (700-100-P10)	<b>389,-</b>
RS3D	Vacuum pump WIGAM 2-stage, 46 l/min, 20 W/230 V/AC/ 1 / 50 Hz + 0,4 l oil K1L	<b>369,-</b>
DIP-402*	Vacuum pump WIGAM 2-stage, 90 l/min, 250 W/230 V/AC/ 1 / 50 Hz + 0,4 l oil K1L	<b>536,-</b>
RS9D	Vacuum pump WIGAM 2-stage, 180 l/min, 370 W/230 V/AC/1/50 Hz + 0,4 l oil K1L	<b>684,-</b>
RS15DE	Vacuum pump WIGAM 2-stage, 250 l/min, 0.01 mbar, 370 W/230 V AC/1/50-60 Hz/IP54 + 0,5 l oil K1L	<b>1 187,-</b>
1010.M.P2	Errecom oil for all vacuum pumps, HD, 0,5 l	<b>16,30</b>
1010.K.P2	Errecom oil for all vacuum pumps, HD, 1 l	<b>27,80</b>
7130/2	„6” reducing union Castel 1/4”m SAE x 1/4”m NPT do P2D, DIP 402	<b>1,80</b>

\* Until stock last



VORTEX

## PORTABLE REFRIGERANT RECOVERY UNITS



Code	Description	Price [EUR]
VORTEX DUAL	Portable refrigerant recovery unit Vortex Dual, 230 V, 1HP (detachable power cord 1,8 m, filter dryer, shoulder strap) (714-202-G11)	<b>1 387,-</b>
VORTEX	Filter dryer replacement for recovery unit Vortex Dual (722-409-P1)	<b>34,80</b>

## PORTABLE FAN FOR FLAMMABLE REFRIGERANTS



Code	Description	Price [EUR]
ATEX	Fan FAN-ATEX (14006059), 250mm, 25 m <sup>3</sup> /min, 75W, ATEX ZONE 2, HC (R600a, R290, R1270); cable	<b>462,-</b>

# REFRIGERANT LEAK DETECTORS, MEASURING DEVICES



## ELECTRONIC LEAK DETECTORS

Code	Description	Price [EUR]
D-TEK Stratus	Inficon leak detector for R22, R32, R134a, R404A, R407C, R410A, R422B, R448A, R449A, R452A, R452B, R507, R1234yf, CO <sub>2</sub> (R744 change of sensor required), flammable refrigerants HC (R290, R600a, R441a - change of sensor required), ammonia R717, SF <sub>6</sub> and all CFCs, HCFCs, HFCs, HFOs – LCD screen, long-life infrared sensor, sensitivity 1 g/a according to EN14624 (R134a), changeable sensitivity level, automatic and manual zero modes, Li-ion rechargeable battery (about 8-10 h), AC wall charger, DC car charger, USB cable, spare filters, extra-long probe, earbuds, carrying case	1 320,-
D-TEK 3	Inficon leak detector for R22, R32, R134a, R404A, R407C, R410A, R422B, R448A, R449A, R452A, R452B, R507, R1234yf, CO <sub>2</sub> (R744 change of sensor required), flammable refrigerants HC (R290, R600a, R441a - change of sensor required), ammonia R717, SF <sub>6</sub> and all CFCs, HCFCs, HFCs, HFOs – long-life infrared sensor, sensitivity 1 g/a according to EN14624 (R134a), changeable sensitivity level, automatic and manual zero modes, Li-ion rechargeable battery (about 10 h), AC wall charger, USB cable, spare filters, carrying case	768,-
TEK-Mate	Inficon leak detector for R22, R134a, R404a, R410a and all CFCs, HCFCs, HFCs, HFOs – heated diode sensor, sensitivity 2 g/a according to EN14624 (R134a), changeable sensitivity level, two D-size alkaline batteries included (about 16 h), spare filters, carrying case	323,-
CS LD 1.0	Bosch leak detector for R32, R134a, R1234yf, R454A, R290, R600, R600a, tracer gas (95%N <sub>2</sub> /5%H <sub>2</sub> ), ammonia R717 and all CFCs, HCFCs, HFCs, HFOs, HCs – LCD screen, long-life sensor, sensitivity 1 g/a according to EN14624 (R134a), changeable sensitivity level, automatic and manual zero modes, Li-Ion rechargeable cell (about 8 h), AC wall charger, USB cable, spare filters, carrying case	538,-
RA LD5	Robinair leak detector for R134a, R1234yf, R449A, R404A, R507, R410A, R22, R12 and all HFCs, HFOs, HCFCs, CFCs - LCD screen, high-intensity LED inspection light, long-life semiconductor sensor, sensitivity 1 g/a according to EN14624, automatic calibration and reset to ambient, four AA alkaline batteries included (about 4 h) , spare filters, leak test vial, carrying case	321,-
ATPZX-1A*	Leak detector for CFC, HCFC, HFC – sensor with heated pentode technology, sensitivity max. 1,5 g/year, plastic case	463,-
GAS-Mate	Inficon leak detector for flammable gases: Propane (R290), isobutane (R600a), R441a, tracer gas (95%N <sub>2</sub> /5%H <sub>2</sub> ), natural gas, methane, cyclopentane, ethane, butane, athanol, ammonia (R717) – sensitivity 5 ppm (methane), changeable sensitivity level, two D-size alkaline batteries included (about 25 h), carrying case	338,-

\* Until stock last

# REFRIGERANT LEAK DETECTORS, MEASURING DEVICES

## SPARE PARTS FOR LEAK DETECTORS

Code	Description	Price [EUR]
TIFIR-8 *	Set of TIFIR-8 filters (5 pc.) and gaskets (3 pc.) for electronic leak detector TIF-IR-1A	20,-
TIFIR-9 *	Battery TIFIR-9 for electronic leak detector TIF-IR-1A	124,-
TIF ZX-7 *	Rechargeable battery for ATPZX-1E	111,-
TIF ZX-20 *	Rechargeable battery for ATPZX-1A	133,-
TIF ZX-15 *	Removable filter for ATPZX-1A	8,-
712-700-G1	Inficon Rechargeable battery for electronic leak detector D-TEK Select and D-TEK CO <sub>2</sub>	85,-
721-702-G1	Inficon Rechargeable battery for electronic leak detector D-TEK 3 and D-TEK Stratus	97,20
703-020-G1	Inficon replaceable sensor for electronic leak detector TEK-Mate	82,90
712-701-G1	Inficon replaceable sensor IR for electronic leak detector D-TEK Select	161,-
706-700-G1	Inficon replaceable sensor for electronic leak detector TGAS-Mate	82,90
724-701-G1	Inficon replaceable sensor IR for electronic leak detector D-TEK 3 and D-TEK Stratus	179,-
724-701-G3	Inficon replaceable sensor of flammable refrigerants for electronic leak detector D-TEK 3 and D-TEK Stratus	324,-
712-707-G1	Inficon replaceable filter elements for electronic leak detector D-TEK Select, D-TEK CO <sub>2</sub> , D-TEK 3 and D-TEK Stratus (5 pc.)	27,70
705-600-G1	Inficon replaceable filter elements for electronic leak detector TEK-Mate (20 pc.)	28,70
724-703-G1	Inficon standard probe for D-TEK Stratus and D-TEK 3	41,-



535855

## "UV" LEAK DETECTORS

Code	Description	Price [EUR]
UV-53585	Set of UV „JUNIOR”: lamp with a flexible probe length 310 mm, battery powered (life time about 20 h), universal dye 53810, 10 application with a dispenser, quick coupler for R134a + adapter R12, goggles, dye 53610 and 53609	153,-

## UV DYES, CLEANERS

Code	Description	Price [EUR]
B-53810	Universal UV dye for 53585 for 10 applications (1 dose per 300 ml of oil or 3,2 kg of refrigerant)	25,40
B-53825	Universal UV dye for 53100 – C i 53200 – 220 – C for 25 applications (1 dose per 300 ml of oil or 3,2 kg of refrigerant)	52,10
B-21004	TRACE – 2 dye for leak detection 118 ml (8 ml on 1 kg refrigerant)	24,-
Z-53314	UV dye cleanser in a spray bottle 113 g	5,60

\* Until stock last

# REFRIGERANT LEAK DETECTORS, MEASURING DEVICES



CARLYLOC-A



TR1143



ST10



SA-880-SSX



TFC-502



## LEAK DETECTORS - LIQUIDS

Code	Description	Price [EUR]
CARLYLOC-A	Leak detection liquid Carlyloc – spray 400 ml	<b>8,30</b>
TR1143	Micro leak detection fluid Best Bubbles – spray 1 l	<b>9,-</b>

## ELECTRONIC THERMOMETERS

Code	Description	Price [EUR]
ST10	Pocket thermometer WIGAM (-50°C/+300°C ), battery powered	<b>13,80</b>
SA-880-SSX	Pocket thermometer WIGAM (-50°C/+256°C), battery powered, (with wire 1 m), resolution 0.1 – 0.5°C, stainless steel sensor	<b>23,90</b>
TFC-502	Thermometer WIGAM (-200°C/+800°C), 2 inputs, battery powered, 2 standard sensors (-50°C/+400°C), resolution 0.1°C	<b>167,-</b>
CZ-105	Temperature sensor to TFC-502 surface (-50°C/+200°C)	<b>86,50</b>
CZ-106	Temperature sensor to TFC-502 food (-50°C /+600°C)	<b>40,60</b>



713-202-G1



719-202-G1



PRATIKA 100-05



TIF 9030



## PORTABLE ELECTRONIC SCALES

Code	Description	Price [EUR]
713-202-G1	Scale Wey-TEK, 100 kg, controlled on cable, plastic case, battery 9 V	<b>333,-</b>
719-202-G1*	Scale Wey-TEK HD Wireless, 115 kg, wireless, 4 batteries AA, plastic case, reading via Bluetooth® on a smartphone	<b>379,-</b>
PRATIKA-100-05	Scale WIGAM load capacity 100 kg, precision 5 g, battery powered + plastic case	<b>236,-</b>
TIF9030E	Scale TIF load capacity 100 kg, precision 10 g, battery powered	<b>205,-</b>
719-715-G1*	Wireless remote control for the Wey-TEK HD Wireless scale	<b>222,-</b>

\* Until stock last

# PUMPS AND DISPENSERS, CONNECTIONS



W52013



AT-



AT/CDP18



MAXI/MINI ORANGE



OJ / 4

## PUMPS AND DISPENSERS

Code	Description	Price	
		[PLN]	[EUR]
AT-OTP065	Universal oil pump (capacity 50 ml/stroke)	234,-	-
W52013	Universal oil pump (capacity 52 ml/stroke)	-	142,-
AT/CDP18	Condensate pump – 18 l/h of lift height 1,5 m, cable length 10 m, 3 W, 100-230 V, 50-60 Hz	284,-	-
MINI-ORANGE	Condensate pump Mini Orange – 12 l/h max. lift height 10 m, 20W, 230V, 50Hz	557,-	-
MAXI-ORANGE*	Condensate pump Maxi Orange – 35 l/h max. lift height 10 m, 23 W, 230 V, 50 Hz	658,-	-
WM-DD-OJ/4-M	Additional dispenser "large", volume 60 g, 1 ball valve, hose 90 mm, 1/4" SAE	-	49,90

\* Until stock last



GF6



EASY-JOINT



16-C



17-



82934-E / 82834-E



5108118001

## CONNECTIONS

Code	Description	Price	
		[PLN]	[EUR]
GF6-1/4"NP	WIGAM Connector HANSENA 1/4" m NPT on tube 6 mm	-	11,90
G6	WIGAM Gasket for connectors HANSENA GF6	-	0,70
EASY-JOINT-1/2	WIGAM Self-locking connector 1/2"	-	27,80
EASY-JOINT-1/4	WIGAM Self-locking connector 1/4"	-	16,50
EASY-JOINT-3/8	WIGAM Self-locking connector 3/8"	-	20,70
16-C	WIGAM Straight self-locking connector 1/4"m SAE x 1/4"fm SAE – set	-	33,-
17-C	WIGAM Angle self-locking connector 90° 1/4"m SAE x 1/4"fm SAE – set	-	38,50
82834-E	MASTERCool Angle suction self-locking connector R134a (red) 90° 1/4" FL-Mx16 mm	-	41,90
82934-E	MASTERCool Angle suction self-locking connector R134a (blue) 90° 1/4" FL-Mx13 mm	-	41,90
5108118001	WIGAM Straight brass connector with internal thread 1/4"f x 1/4"f	-	3,67

## ACCESSORIES, CHEMICAL PRODUCTS



91337



EW-3900



70088



8330/A



7156/2

### ADDITIONAL ACCESSORIES

Code	Description	Price	
		[PLN]	[EUR]
70088	Evacuation pliers to drain refrigerant	-	<b>44,50</b>
8330/A	Line piercing valve with schrader to drain refrigerant, tube 6 - 10 mm x 1/4" SAE m	-	<b>34,-</b>
EW-3900	Device for replacing valves under pressure (1/4" f SAE)	-	<b>36,60</b>
EW-3900/5	Device for replacing valves under pressure 5/16" SAE R410A	-	<b>36,60</b>
91337	Set of vents (4 sizes) for car air conditioning systems using R12, R134a - with key	-	<b>86,40</b>
7156/2	Castel „11" cylinder adapter W21,8 (6) x 1/4"	-	<b>4,80</b>
7156/X02	Castel cylinder adapter R410A (5/16")	-	<b>7,20</b>

### FLUSHING LIQUIDS



Code	Description	Price [EUR]
13005050	Pressure vessel Flash-flush with flushing liquid for small installations	<b>41,30</b>
13005043001*	Flash – A/C Adapter set with hose for car air conditioning systems (for 13005050)	<b>41,10</b>
13005043002	Flash – HVA/C Adapter set with hose for domestic air conditioning (for 13005050)	<b>33,90</b>

### SEALING PASTES

Code	Description	Price [EUR]
10001	LEAK LOCK - thread sealing paste (39 ml)	<b>11,80</b>
TR1157.Y.01	SEALUP sealing paste for threaded and socket joints, in a tube (50 ml)	<b>7,60</b>

\* Until stock last



# CHEMICAL PRODUCTS



CARLYBI



BEST COND



CARLYPRO

CARLYCLEA



AB1068...

SANIBACT

## CLEANING AGENTS AND GERMICIDES

Code	Description	Details	Volume	Price [EUR]
CARLYCLEAN-S	Detergent for cleaning exchangers	spray bottle	500 ml	<b>15,70</b>
CARLYCLEAN-P		-	5 l	<b>53,70</b>
CARLYBIO-S	Germical and disinfectant substance	spray bottle	500 ml	<b>16,80</b>
CARLYBIO-P		-	5 l	<b>105,-</b>
CARLYPRO-S	Liquid cleaner and disinfectant for exchangers	spray bottle	500 ml	<b>17,30</b>
CARLYPRO-P		-	5 l	<b>118,-</b>
AB1068.K.01	Cleaning agent for evaporators and plastics, apple scent	dilute, spray bottle	1 l	<b>9,90</b>
AB1068.P.01		concentrate, dilution 1:5	5 l	<b>23,50</b>
AB1085.Q.01	SANIBACT Germical and disinfecting liquid for air conditioning and cooling systems	concentrate,	250 ml	<b>8,80</b>
AB1085.K01		dilution 1:25	1 l	<b>25,-</b>
AB1085.P.01			5 l	<b>117,-</b>
AB1046.K.01	BEST COND CLEANER Alkaline agent for cleaning condensers and evaporators	dilute, spray bottle	1 l	<b>10,-</b>
AB1209.P.01		concentrate, dilution 1:6	5 l	<b>28,20</b>
AB1212.P.01	BEST ACID COND CLEANER Acidic agent for cleaning condensers and evaporators	concentrate, dilution 1:6	5 l	<b>21,40</b>

## ACIDITY TESTS AND NEUTRALIZERS

Code	Description	Price [EUR]
TESTOIL-POE	Synthetic and polyester oil acidity test	<b>17,-</b>
RK1349	ACID TEST Oil acidity test	<b>20,40</b>
STOPACID-POE	Polyester oil acid neutraliser, 30 ml (on 2 l oil)	<b>55,-</b>
TR1175	NO ACID ULTRA Acid neutraliser for air conditioning and cooling systems	<b>17,-</b>

## PROTECTIVE GELS

Code	Description	Price [EUR]
CARLYCOOL	Heat absorbing gel, spray 0,6 l	<b>25,50</b>
TR1141.K.01	PROTECT GEL Protective gel for welding, spray 1 l	<b>13,20</b>

## OTHER CHEMICAL PRODUCTS

Code	Description	Price [EUR]
17004	THAWZONE liquid system dryer, 118 ml (8 ml on 1 kg refrigerant)	<b>20,90</b>



## SOFT ANNEALED TUBES FOR HVAC

Copper HVAC tubes EN 12735-1, ASTM B280 CI2200

% Cu 99.90, dehydrated, cleaned, plugged.

### IMPERIAL TUBES - COILS 25 m

Code	Dimension [inch]	Outer diameter x wall thickness [mm]	Price [PLN]/[m]
M-RKR-1/4"-M	1/4	6,35 x 0,76	<b>12,-</b>
M-RKR-3/8"-M	3/8	9,52 x 0,81	<b>19,80</b>
M-RKR-1/2"-M	1/2	12,7 x 0,81	<b>26,90</b>
M-RKR-5/8"-M	5/8	15,88 x 0,89	<b>37,10</b>
M-RKR-3/4"-M	3/4	19,05 x 0,89	<b>45,10</b>
M-RKR-7/8"-M	7/8	22,22 x 1,00	<b>59,20</b>



### METRIC TUBES - COILS 25 m

Code	Outer diameter x wall thickness [mm]	Price [PLN]/[m]
M-RKR-6-M	6 x 0,76	<b>11,20</b>
M-RKR-10-M	10 x 0,81	<b>20,80</b>
M-RKR-12-M	12 x 0,81	<b>25,40</b>
M-RKR-15-M	15 x 0,89	<b>35,-</b>
M-RKR-18-M	18 x 0,89	<b>42,60</b>
M-RKR-22-M	22 x 1,00	<b>58,60</b>

COPPER PRICES ARE FLUCTUATING.  
PLEASE CHECK IN THE CURRENT PRICE  
LIST AVAILABLE ON OUR WEBSITE.

## R-250 SEMI-HARD HVAC TUBES IN STRAIGHT LENGTHS

Copper HVAC tubes EN 12735-1, ASTM B280 CI2200

% Cu 99.90, dehydrated, cleaned, plugged.

Code	Outer diameter x wall thickness [mm]	Price [PLN]/[m]
M-RSZ-250-6-M	6 x 0,76	<b>11,30</b>
M-RSZ-250-10-M	10 x 0,8	<b>20,50</b>
M-RSZ-250-12-C-M	12 x 0,76	<b>23,80</b>
M-RSZ-250-12-M	12 x 1,0	<b>30,60</b>
M-RSZ-250-15-C-M	15 x 0,76	<b>30,-</b>
M-RSZ-250-15-M	15 x 1,0	<b>38,80</b>
M-RSZ-250-18-C-M	18 x 0,81	<b>38,60</b>
M-RSZ-250-18-M	18 x 1,0	<b>47,20</b>
M-RSZ-250-22-C-M	22 x 0,81	<b>47,60</b>
M-RSZ-250-22-M	22 x 1,0	<b>58,10</b>
M-RSZ-250-28-C-M	28 x 1,0	<b>74,90</b>
M-RSZ-250-28-M	28 x 1,5	<b>111,-</b>
M-RSZ-250-35-C-M	35 x 1,25	<b>118,-</b>
M-RSZ-250-35-M	35 x 1,5	<b>140,-</b>
M-RSZ-250-42-C-M	42 x 1,25	<b>143,-</b>
M-RSZ-250-42-M	42 x 1,5	<b>170,-</b>
M-RSZ-250-54-C-M	54 x 1,5	<b>219,-</b>
M-RSZ-250-54-M	54 x 2,0	<b>289,-</b>
M-RSZ-250-64-M	64 x 2,0	<b>345,-</b>
M-RSZ-250-76-M	76 x 2,0	<b>411,-</b>
M-RSZ-250-88,9-M	88,9 x 2,0	<b>484,-</b>
M-RSZ-250-108-M	108 x 2,5	<b>737,-</b>





## R-290 HARD HVAC TUBES IN STRAIGHT LENGTHS

Code	Outer diameter [cal ~ mm] x wall thickness [mm]	Pressure [bar]	Price [PLN]/[m]
M-RSZ-290-3/8"-M	3/8" ~ 9,53 x 0,76	97	<b>22,20</b>
M-RSZ-290-1/2"-M	1/2" ~ 12,70 x 0,76	72	<b>29,10</b>



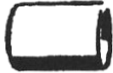
## COPPER FITTINGS





COPPER PRICES ARE FLUCTUATING. PLEASE CHECK IN THE CURRENT PRICE LIST AVAILABLE ON OUR WEBSITE.



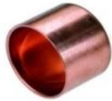

	Code	Description	1	2	3	Price [PLN]
			Size [mm]	Size [mm]	Size [mm]	
<b>Elbows 90° 2-flaring</b>  	ŁUK-6	Elbow 90°	6	-	-	<b>2,40</b>
	ŁUK-10	Elbow 90°	10	-	-	<b>5,20</b>
	ŁUK-12	Elbow 90°	12	-	-	<b>3,20</b>
	ŁUK-15	Elbow 90°	15	-	-	<b>3,60</b>
	ŁUK-18	Elbow 90°	18	-	-	<b>5,20</b>
	ŁUK-22	Elbow 90°	22	-	-	<b>9,-</b>
	ŁUK-28	Elbow 90°	28	-	-	<b>14,50</b>
	ŁUK-35	Elbow 90°	35	-	-	<b>38,60</b>
	ŁUK-42	Elbow 90°	42	-	-	<b>36,20</b>
	ŁUK-54	Elbow 90°	54	-	-	<b>94,80</b>
	ŁUK-64	Elbow 90°	64	-	-	<b>203,-</b>
	ŁUK-76	Elbow 90°	76	-	-	<b>284,-</b>
	ŁUK-89	Elbow 90°	89	-	-	<b>452,-</b>
	ŁUK-108	Elbow 90°	108	-	-	<b>648,-</b>
<b>Elbows 45° 2-flaring</b>  	ŁUK-12-45°	Elbow 45°	12	-	-	<b>8,40</b>
	ŁUK-15-45°	Elbow 45°	15	-	-	<b>3,30</b>
	ŁUK-18-45°	Elbow 45°	18	-	-	<b>6,-</b>
	ŁUK-22-45°	Elbow 45°	22	-	-	<b>5,30</b>
	ŁUK-28-45°	Elbow 45°	28	-	-	<b>11,40</b>
	ŁUK-35-45°	Elbow 45°	35	-	-	<b>29,30</b>
	ŁUK-42-45°	Elbow 45°	42	-	-	<b>53,60</b>
	ŁUK-54-45°	Elbow 45°	54	-	-	<b>116,-</b>
	ŁUK-64-45°	Elbow 45°	64	-	-	<b>218,-</b>
	ŁUK-76-45°	Elbow 45°	76	-	-	<b>253,-</b>
	ŁUK-89-45°	Elbow 45°	89	-	-	<b>416,-</b>
ŁUK-108-45°	Elbow 45°	108	-	-	<b>552,-</b>	

# COPPER FITTINGS

	Code	Description	1	2	3	Price [PLN]
			Size [mm]	Size [mm]	Size [mm]	
<b>Elbows 90° 1-flaring</b> 	ŁUK-N-10	Street elbow 90°	10	-	-	<b>11,50</b>
	ŁUK-N-12	Street elbow 90°	12	-	-	<b>4,50</b>
	ŁUK-N-15	Street elbow 90°	15	-	-	<b>3,80</b>
	ŁUK-N-18	Street elbow 90°	18	-	-	<b>7,-</b>
	ŁUK-N-22	Street elbow 90°	22	-	-	<b>8,90</b>
	ŁUK-N-28	Street elbow 90°	28	-	-	<b>15,30</b>
	ŁUK-N-35	Street elbow 90°	35	-	-	<b>43,50</b>
	ŁUK-N-42	Street elbow 90°	42	-	-	<b>53,20</b>
	ŁUK-N-54	Street elbow 90°	54	-	-	<b>94,60</b>
	ŁUK-N-64	Street elbow 90°	64	-	-	<b>236,-</b>
	ŁUK-N-76	Street elbow 90°	76	-	-	<b>247,-</b>
ŁUK-N-89	Street elbow 90°	89	-	-	<b>352,-</b>	
ŁUK-N-108	Street elbow 90°	108	-	-	<b>630,-</b>	
<b>Elbows 45° 1-flaring</b> 	ŁUK-N-10-45	Street elbow 45°	10	-	-	<b>20,10</b>
	ŁUK-N-12-45	Street elbow 45°	12	-	-	<b>6,20</b>
	ŁUK-N-15-45	Street elbow 45°	15	-	-	<b>3,20</b>
	ŁUK-N-18-45	Street elbow 45°	18	-	-	<b>6,90</b>
	ŁUK-N-22-45	Street elbow 45°	22	-	-	<b>5,70</b>
	ŁUK-N-28-45	Street elbow 45°	28	-	-	<b>9,80</b>
	ŁUK-N-35-45	Street elbow 45°	35	-	-	<b>32,40</b>
	ŁUK-N-42-45	Street elbow 45°	42	-	-	<b>57,30</b>
	ŁUK-N-54-45	Street elbow 45°	54	-	-	<b>85,20</b>
	ŁUK-N-64-45	Street elbow 45°	64	-	-	<b>229,-</b>
	ŁUK-N-76-45	Street elbow 45°	76	-	-	<b>253,-</b>
	ŁUK-N-89-45	Street elbow 45°	89	-	-	<b>348,-</b>
ŁUK-N-108-45	Street elbow 45°	108	-	-	<b>421,-</b>	
<b>Couplers</b> 	MUFA-10	Coupler	10	-	-	<b>2,60</b>
	MUFA-12	Coupler	12	-	-	<b>1,60</b>
	MUFA-15	Coupler	15	-	-	<b>1,80</b>
	MUFA-18	Coupler	18	-	-	<b>2,70</b>
	MUFA-22	Coupler	22	-	-	<b>4,-</b>
	MUFA-28	Coupler	28	-	-	<b>4,80</b>
	MUFA-35	Coupler	35	-	-	<b>11,30</b>
	MUFA-42	Coupler	42	-	-	<b>24,20</b>
	MUFA-54	Coupler	54	-	-	<b>36,80</b>
	MUFA-64	Coupler	64	-	-	<b>63,20</b>
	MUFA-76	Coupler	76	-	-	<b>82,-</b>
	MUFA-89	Coupler	89	-	-	<b>83,-</b>
	MUFA-108	Coupler	108	-	-	<b>213,-</b>

			1	2	3	
			Size [mm]	Size [mm]	Size [mm]	Price [PLN]
	Code	Description				
<b>Coupling reducers</b> 	M-RED-12-10	Coupling reducer	12	10	-	<b>7,90</b>
	M-RED-15-10	Coupling reducer	15	10	-	<b>10,80</b>
	M-RED-15-12	Coupling reducer	15	12	-	<b>4,80</b>
	M-RED-18-12	Coupling reducer	18	12	-	<b>10,20</b>
	M-RED-18-15	Coupling reducer	18	15	-	<b>4,-</b>
	M-RED-22-12	Coupling reducer	22	12	-	<b>21,90</b>
	M-RED-22-15	Coupling reducer	22	15	-	<b>9,80</b>
	M-RED-22-18	Coupling reducer	22	18	-	<b>6,50</b>
	M-RED-28-15	Coupling reducer	28	15	-	<b>21,-</b>
	M-RED-28-18	Coupling reducer	28	18	-	<b>12,30</b>
	M-RED-28-22	Coupling reducer	28	22	-	<b>6,90</b>
	M-RED-35-22	Coupling reducer	35	22	-	<b>24,20</b>
	M-RED-35-28	Coupling reducer	35	28	-	<b>27,60</b>
	M-RED-42-28	Coupling reducer	42	28	-	<b>52,30</b>
	M-RED-42-35	Coupling reducer	42	35	-	<b>46,20</b>
	M-RED-54-35	Coupling reducer	54	35	-	<b>78,20</b>
	M-RED-54-42	Coupling reducer	54	42	-	<b>73,80</b>
	M-RED-64-42	Coupling reducer	64	42	-	<b>74,80</b>
	M-RED-64-54	Coupling reducer	64	54	-	<b>83,20</b>
	M-RED-76-54	Coupling reducer	76	54	-	<b>132,-</b>
	M-RED-76-64	Coupling reducer	76	64	-	<b>137,-</b>
	M-RED-89-64	Coupling reducer	89	64	-	<b>207,-</b>
M-RED-89-76	Coupling reducer	89	76	-	<b>212,-</b>	
M-RED-108-76	Coupling reducer	108	76	-	<b>280,-</b>	
M-RED-108-89	Coupling reducer	108	89	-	<b>268,-</b>	
<b>Bushings</b> 	N-RED-12-10	Bushing	12	10	-	<b>7,-</b>
	N-RED-15-10	Bushing	15	10	-	<b>7,30</b>
	N-RED-15-12	Bushing	15	12	-	<b>3,40</b>
	N-RED-18-12	Bushing	18	12	-	<b>7,60</b>
	N-RED-18-15	Bushing	18	15	-	<b>3,30</b>
	N-RED-22-15	Bushing	22	15	-	<b>5,-</b>
	N-RED-22-18	Bushing	22	18	-	<b>4,80</b>
	N-RED-28-15	Bushing	28	15	-	<b>17,60</b>
	N-RED-28-18	Bushing	28	18	-	<b>20,90</b>
	N-RED-28-22	Bushing	28	22	-	<b>7,90</b>
	N-RED-35-22	Bushing	35	22	-	<b>27,20</b>
	N-RED-35-28	Bushing	35	28	-	<b>21,30</b>
	N-RED-42-28	Bushing	42	28	-	<b>36,80</b>
	N-RED-42-35	Bushing	42	35	-	<b>32,40</b>
	N-RED-54-35	Bushing	54	35	-	<b>64,10</b>
	N-RED-54-42	Bushing	54	42	-	<b>72,-</b>
	N-RED-64-42	Bushing	64	42	-	<b>97,70</b>
	N-RED-64-54	Bushing	64	54	-	<b>93,-</b>
	N-RED-76-54	Bushing	76	54	-	<b>108,-</b>
	N-RED-76-64	Bushing	76	64	-	<b>124,-</b>
	N-RED-89-64	Bushing	89	64	-	<b>127,-</b>
	N-RED-89-76	Bushing	89	76	-	<b>123,-</b>
N-RED-108-76	Bushing	108	76	-	<b>245,-</b>	
N-RED-108-89	Bushing	108	89	-	<b>213,-</b>	

# COPPER FITTINGS

	Code	Description	1	2	3	Price [PLN]
			Size [mm]	Size [mm]	Size [mm]	
<b>Tees</b> 	TR-6	Tee	6	6	6	<b>4,80</b>
	TR-10	Tee	10	10	10	<b>6,40</b>
	TR-12	Tee	12	12	12	<b>4,10</b>
	TR-15	Tee	15	15	15	<b>4,80</b>
	TR-18	Tee	18	18	18	<b>8,90</b>
	TR-22	Tee	22	22	22	<b>10,20</b>
	TR-28	Tee	28	28	28	<b>16,30</b>
	TR-35	Tee	35	35	35	<b>42,30</b>
	TR-42	Tee	42	42	42	<b>72,80</b>
	TR-54	Tee	54	54	54	<b>121,-</b>
	TR-64	Tee	64	64	64	<b>316,-</b>
	TR-76	Tee	76	76	76	<b>378,-</b>
	TR-89	Tee	89	89	89	<b>730,-</b>
	TR-108	Tee	108	108	108	<b>812,-</b>
<b>Reduction tees</b> 	TR-15-10-15	Reduction tee	15	10	15	<b>20,80</b>
	TR-15-12-15	Reduction tee	15	12	15	<b>8,10</b>
	TR-15-18-15	Reduction tee	15	18	15	<b>19,60</b>
	TR-18-22-18	Reduction tee	18	22	18	<b>26,90</b>
	TR-22-12-22	Reduction tee	22	12	22	<b>29,-</b>
	TR-22-15-22	Reduction tee	22	15	22	<b>10,60</b>
	TR-22-18-22	Reduction tee	22	18	22	<b>12,80</b>
	TR-22-28-22	Reduction tee	22	28	22	<b>49,90</b>
	TR-28-22-28	Reduction tee	28	22	28	<b>21,20</b>
	TR-28-35-28	Reduction tee	28	35	28	<b>106,-</b>
	TR-35-22-35	Reduction tee	35	22	35	<b>62,70</b>
	TR-35-28-35	Reduction tee	35	28	35	<b>85,90</b>
	TR-42-35-42	Reduction tee	42	35	42	<b>183,-</b>
	TR-54-42-54	Reduction tee	54	42	54	<b>320,-</b>
<b>End caps</b> 	ZAŚ-10	End cap	10	-	-	<b>4,20</b>
	ZAŚ-12	End cap	12	-	-	<b>4,50</b>
	ZAŚ-15	End cap	15	-	-	<b>2,90</b>
	ZAŚ-18	End cap	18	-	-	<b>3,30</b>
	ZAŚ-22	End cap	22	-	-	<b>5,20</b>
	ZAŚ-28	End cap	28	-	-	<b>9,70</b>
	ZAŚ-35	End cap	35	-	-	<b>28,30</b>
	ZAŚ-42	End cap	42	-	-	<b>42,60</b>
	ZAŚ-54	End cap	54	-	-	<b>54,80</b>
	ZAŚ-64	End cap	64	-	-	<b>59,20</b>
	ZAŚ-76	End cap	76	-	-	<b>152,-</b>
	ZAŚ-89	End cap	89	-	-	<b>235,-</b>
	ZAŚ-108	End cap	108	-	-	<b>173,-</b>
<b>Oil traps</b> 	SYFON-18	Oil trap	18	-	-	<b>63,-</b>
	SYFON-22	Oil trap	22	-	-	<b>80,-</b>
	SYFON-28	Oil trap	28	-	-	<b>102,-</b>
	SYFON-35	Oil trap	35	-	-	<b>178,-</b>
	SYFON-42	Oil trap	42	-	-	<b>332,-</b>
	SYFON-54	Oil trap	54	-	-	<b>582,-</b>

# MOUNTING SYSTEMS

## SINGLE CLAMP WITH NUT M8

Code	Description	Dimension [inch]	Size [mm]	Price [PLN]
ER-400055-M	Clamp SUPER FIX M8	1/4	12-14	<b>2,30</b>
ER-400056-M	Clamp SUPER FIX M8	3/8	15-19	<b>2,50</b>
ER-400057-M	Clamp SUPER FIX M8	1/2	21-23	<b>2,60</b>
ER-400058-M	Clamp SUPER FIX M8	3/4	26-28	<b>2,80</b>
ER-400059-M	Clamp SUPER FIX M8	1	32-35	<b>3,10</b>
ER-400060-M	Clamp SUPER FIX M8	1 1/4	40-43	<b>3,30</b>
ER-400062-M	Clamp SUPER FIX M8	1 1/2	48-52	<b>4,10</b>
ER-589320-M	Clamp SUPER FIX M8	2	57-61	<b>4,50</b>



## DOUBLE SCREW CLAMP WITH NUT M8

Code	Description	Dimension [inch]	Size [mm]	Price [PLN]
ER-586201-M	Clamp MACRO FIX M8	1/4	11-15	<b>3,20</b>
ER-586202-M	Clamp MACRO FIX M8	3/8	15-19	<b>3,20</b>
ER-586203-M	Clamp MACRO FIX M8	1/2	19-25	<b>3,40</b>
ER-586204-M	Clamp MACRO FIX M8	3/4	25-31	<b>3,70</b>
ER-586205-M	Clamp MACRO FIX M8	1	31-37	<b>4,-</b>
ER-586206-M	Clamp MACRO FIX M8	1 1/4	37-44	<b>4,30</b>
ER-586208-M	Clamp MACRO FIX M8	1 1/2	50-58	<b>4,50</b>
ER-586209-M	Clamp MACRO FIX M8	2	58-65	<b>5,70</b>



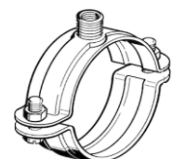
## DOUBLE SCREW CLAMP WITH NUT M8/M10

Code	Description	Dimension [inch]	Size [mm]	Price [PLN]
ER-586010-M	Clamp MACRO FIX M8/M10	2 1/2"	68-78	<b>7,20</b>
ER-586012-M	Clamp MACRO FIX M8/M10	3"	88-98	<b>9,40</b>
ER-586014-M	Clamp MACRO FIX M8/M10	4"	108-118	<b>11,90</b>



## DOUBLE SCREW SILICONE CLAMP

Code	Description	Temp. max.	Size [mm]	Price [PLN]
SI-OBEJ-STABIL-14-18-M	Silicone clamp Stabil D-3G	200°C	14-18	<b>45,80</b>
SI-OBEJ-STABIL-19-23-M	Silicone clamp Stabil D-3G	200°C	19-23	<b>43,40</b>
SI-OBEJ-STABIL-24-28-M	Silicone clamp Stabil D-3G	200°C	24-28	<b>49,80</b>
SI-OBEJ-STABIL-33-37-M	Silicone clamp Stabil D-3G	200°C	33-37	<b>53,70</b>
SI-OBEJ-STABIL-40-45-M	Silicone clamp Stabil D-3G	200°C	40-45	<b>59,90</b>

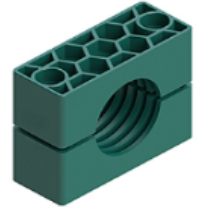


\* Until stock last

# MOUNTING SYSTEMS

## SINGLE TUBE BANDS (ribbed inner surface of the band)

Code	Description	Colour	Temp. max./min.	Size [mm]	Price [PLN]
MENOS-10-Z-M	Plastic tube clamp with assembly kit	Green	90/-30°C	10	<b>5,80</b>
MENOS-10-CZ-M		Black	120/-40°C		<b>8,50</b>
MENOS-12-Z-M		Green	90/-30°C	12	<b>5,80</b>
MENOS-12-CZ-M		Black	120/-40°C		<b>8,50</b>
MENOS-15-Z-M		Green	90/-30°C	15	<b>6,40</b>
MENOS-15-CZ-M		Black	120/-40°C		<b>9,30</b>
MENOS-18-Z-M		Green	90/-30°C	18	<b>6,40</b>
MENOS-18-CZ-M		Black	120/-40°C		<b>9,30</b>
MENOS-22-Z-M		Green	90/-30°C	22	<b>7,40</b>
MENOS-22-CZ-M		Black	120/-40°C		<b>10,10</b>
MENOS-28-Z-M		Green	90/-30°C	28	<b>10,60</b>
MENOS-28-CZ-M		Black	120/-40°C		<b>12,90</b>
MENOS-35-Z-M		Green	90/-30°C	35	<b>12,20</b>
MENOS-35-CZ-M		Black	120/-40°C		<b>19,-</b>
MENOS-42-Z-M		Green	90/-30°C	42	<b>13,10</b>
MENOS-42-CZ-M		Black	120/-40°C		<b>19,80</b>
MENOS-55-Z-M		Green	90/-30°C	55	<b>19,30</b>
MENOS-55-CZ-M		Black	120/-40°C		<b>33,-</b>
MENOS-65-Z-M		Green	90/-30°C	65	<b>38,30</b>
MENOS-65-CZ-M		Black	120/-40°C		<b>77,50</b>
MENOS-76.1-Z-M		Green	90/-30°C	76,1	<b>97,50</b>
MENOS-76.1-CZ-M		Black	120/-40°C		<b>181,-</b>
MENOS-88.9-Z-M		Green	90/-30°C	88,9	<b>97,80</b>
MENOS-88.9-CZ-M		Black	120/-40°C		<b>181,-</b>



## DOUBLE THREAD SCREWS

Code	Description	Dimensions metric	Price [PLN]
ER-593270-M	VDF Screw with TORX ending	8 x 50	<b>0,50</b>
ER-593300-M	VDF Screw with TORX ending	8 x 80	<b>0,70</b>
ER-593310-M	VDF Screw with TORX ending	8 x 100	<b>0,90</b>
ER-593400-M	VDF Screw with TORX ending	8 x 120	<b>1,10</b>
ER-593410-M	VDF Screw with TORX ending	8 x 150	<b>1,30</b>
ER-593420-M	VDF Screw with TORX ending	8 x 200	<b>2,60</b>
ER-593340-M	VDF Screw with TORX ending	10 x 80	<b>1,20</b>
ER-593350-M	VDF Screw with TORX ending	10 x 100	<b>1,30</b>



## WALL PLUG (NYLON)

Code	Description	Diameter [mm]	Price [PLN]
ER-570720-M	Wall plug FPN 8	8	<b>0,20</b>
ER-570730-M	Wall plug FPN 10	10	<b>0,40</b>
ER-570740-M	Wall plug FPN 12	12	<b>0,60</b>





# MOUNTING SYSTEMS

## PROFILES AND FITTINGS

Code	Description	Dimensions metric	Price [PLN]
ER-317116-M	Profile LDC20-1 (length 2 m)	21x41x1,5	<b>69,30</b>
ER-317096-M	Profile LAC20-1 (length 2 m)	41x41x1,5	<b>81,80</b>
ER-311686-M	Support CLDC30-1 (length 300 mm)	21x41x1,5	<b>43,50</b>
ER-311691-M	Support CLDC45-1 (length 450 mm)	21x41x1,5	<b>54,60</b>
ER-590080-M	Screw TMN 41 mounted with a nut, a large washer and M8 pin	8x40	<b>6,90</b>
ER-584725-M	Connector APX E4-41 for profile with M10 screws and nuts	70x144x5	<b>77,90</b>



## CLAMPS

Code	Description	Size [mm]	Price [PLN]
ER-386810-M	Clamp TKN M10	M8	<b>9,50</b>
ER-386820-M	Clamp TKN M10	M10	<b>9,60</b>



## THREADED RODS

Code	Description	Size [mm]	Price [PLN]
ER-592590-M	Threaded rod 1TFZ8 (length 1 m)	M8	<b>5,60</b>
ER-592600-M	Threaded rod 2TFZ8 (length 2 m)	M8	<b>14,-</b>
ER-592610-M	Threaded rod 1TFZ10 (length 1 m)	M10	<b>8,90</b>
ER-592620-M	Threaded rod 2TFZ20 (length 2 m)	M10	<b>17,80</b>



## FIXINGS FOR TRAPEZOIDAL SHEETS

Code	Description	Diameter [mm]	Price [PLN]
ER-597581-M	Fixing TBH K DG 10,5	10,5	<b>6,-</b>



## PINS FOR CONCRETE

Code	Description	Size [mm]	Price [PLN]
ER-593190-M	Pin for concrete CA8 M8	M8	<b>1,40</b>
ER-593200-M	Pin for concrete CA10 M10	M10	<b>2,-</b>



## PINS FOR BRICK

Code	Description	Size [mm]	Price [PLN]
ER-593100-M	Pin for brick CL8	M8	<b>4,20</b>
ER-593110-M	Pin for brick CL10	M10	<b>5,70</b>





# MOUNTING SYSTEMS

## COMPLETE VIBRATION ISOLATOR with a flexible rubber body

Code	Description	Load range [kg]	Hardness [Sh]	Screw size [mm]	Price [EUR]
SO-WIBR-TID-N1-M <sup>1)</sup>	Complete vibration isolation TID N1 (small beige)	150-300	45	M10	<b>18,30</b>
SO-WIBR-TID-N2-M <sup>2)</sup>	Complete vibration isolation TID N2 (beige)	330-500	45	M12	<b>30,70</b>
SO-WIBR-TID-N3-M <sup>2)</sup>	Complete vibration isolation TID N3 (red)	460-700	60	M12	<b>30,70</b>
SO-WIBR-TID-N4-M <sup>2)</sup>	Complete vibration isolation TID N4 (black)	670-950	70	M12	<b>30,70</b>



<sup>1)</sup>Complete vibration isolator includes: vibration isolator, disk, screw M10x70, nuts M10 - 3 pc., washer M10 - 3 pc.

<sup>2)</sup>Complete vibration isolator includes: vibration isolator, disk, screw M12x80, nuts M12 - 3 pc., washer M12 - 3 pc.

For correct selection of a vibration isolator, please contact the technical department of Berling S.A.

## BLUEMAY nylon mounts (rods)



Code	Description	Max. load	Size [mm]	Price [PLN]
BM-M8-M	Nylon rod M8	50 kg	8x1000	<b>59,-</b>
BM-M10-M	Nylon rod M10	80 kg	10x1000	<b>66,50</b>
BM-M12-M	Nylon rod M12	120 kg	12x1000	<b>79,50</b>
BM-M16-M	Nylon rod M16	165 kg	16x1000	<b>133,-</b>

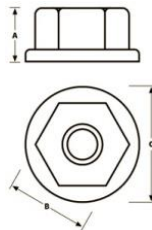
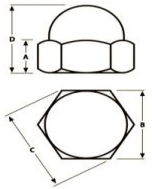
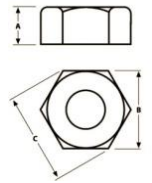


# MOUNTING SYSTEMS

## BLUEMAY nylon mounts (washer, nuts)



Code	Description	Size [mm]	Price [PLN]
BM-PS-M8-M	Standard washer	8,4x17x1,6	<b>0,60</b>
BM-PS-M10-M	Standard washer	10,5x21x2	<b>0,70</b>
BM-PS-M12-M	Standard washer	13x24x2,5	<b>0,80</b>
BM-PS-M16-M	Standard washer	17x30x3	<b>1,50</b>
BM-PD-M8-M	Load distribution nylon washer (large)	8,5x45x4,5	<b>7,60</b>
BM-PD-M10-M	Load distribution nylon washer (large)	11,5x45x4,5	<b>7,60</b>
BM-PD-M12-M	Load distribution nylon washer (large)	13x51x4,5	<b>8,10</b>
BM-PD-M16-M	Load distribution nylon washer (large)	16,5x70x5	<b>19,40</b>
BM-NS-M8-M	Hexagonal nut	8	<b>1,80</b>
BM-NS-M10-M	Hexagonal nut	10	<b>2,50</b>
BM-NS-M12-M	Hexagonal nut	12	<b>3,-</b>
BM-NS-M16-M	Hexagonal nut	16	<b>4,30</b>
BM-NZP-M8-M	Nut with washer	8	<b>2,-</b>
BM-NZP-M10-M	Nut with washer	10	<b>2,70</b>
BM-NZP-M12-M	Nut with washer	12	<b>3,50</b>
BM-NZP-M16-M	Nut with washer	16	<b>4,80</b>
BM-NN-M8-M	Blind nut	8	<b>3,-</b>
BM-NN-M10-M	Blind nut	10	<b>3,-</b>
BM-NN-M12-M	Blind nut	12	<b>4,50</b>



# SPECIAL OFFERS

SPECIAL OFFER until stocks last.

The prices below are subject to a discount according to the Agreement.

## SPECIAL OFFER - Product List

Code	Description	Price [PLN]
<b>AKO</b>		
AK-KG-71050-S-1-M	Heating cable 1 m with metal braiding 50 W	35,-
AK-KGK-52401-M	Heat shrink tubing for cutting to 52346 and 712545 (0.1 m/cable)	21,-
AK-KKG-71091-M	Ends for N-A-71050 with choke	38,-
AK-WNCZ-52213-M	Sensor C for CamGas R717 (NH3) detector, 250/500 ppm. AKO-52213	950,-
AK-WNCZ-52215-M	Sensor D for CamGas R744 (CO2) detector, 3000/8000 ppm. AKO-52215	1 490,-
<b>BITZER</b>		
BU-44DES-14YR-OM	Tandem 44DES-14Y-40S+2xheater; 2x RW head	14 418,-
BU-44FE-50YR-Z-M	Tandem 44FE-50Y + 2x heater + 2x Delta P + 2x capacity control	29 000,-
BU-4VCS-6.2YR-M	Compressor 4VCS-6.2Y + heater + RW head (34.7 m3/h)	6 700,-
BU-OA-14111-M	Oil separator OA-14111 + shut-off valve at oil outlet (1320 m3/h)	18 900,-
<b>BOSCH</b>		
AD-PP-RA15121A-M	Cooltech two-stage vacuum pump 236 l/min. RA15121A-10CFM	3 700,-
AD-STM-660-CB-M	Cooltech two-stage vacuum pump 236 l/min. RA15121A-10CFM	447,-
<b>CARLY</b>		
CA-CARLYCLEAN-MC-S-M	Microchannel exchanger cleaning fluid 0.5 l spray	43,-
CA-CARLYCOAT-M	Anti-corrosion spray preparation for protecting the surface of the lamella heat exchanger	31,-
CA-CARLYSTEEL-S-M	CARLYSTEEL lubricant 0.4 l spray	27,-
CA-DETECTOIL-M	Polyester Oil Identifier	85,-
CA-SOL-R-78013-MMS-M	TURBOIL-R 78013-MMS oil separator (42 mm) with oil tank (without float valve)	695,-
CA-SOL-R-79017-S/MMS-M	TURBOIL-R 79017-S-MMS oil separator (54/2 1/8" mm) with oil tank (without float valve)	795,-
<b>CASTEL</b>		
AC-RC-3320/11S-M	Maximum suction pressure regulator (1 3/8" soldered) 3320/11S	649,-
AC-RC-3320/7S-M	Maximum suction pressure regulator (7/8" soldered) 3320/7S	418,-
AC-RC-3320/9S-M	Maximum suction pressure regulator (1 1/8" soldered) 3320/9S	548,-
AC-RC-3330/11S-M	Evaporation pressure regulator (1 3/8" soldered) 3330/11S	745,-
AC-RC-3330/5S-M	Evaporation pressure regulator (5/8" soldered) 3330/5S	327,-
AC-RC-3330/9S-M	Evaporation pressure regulator (1 1/8" soldered) 3330/9S	660,-
AC-RC-3340/5S-M	Condensing pressure regulator (5/8" soldered) 3340/5S	340,-
AC-RC-3340/7S-M	Condensing pressure regulator (7/8" soldered) 3340/7S	540,-
AC-RC-3350/4S-M	Tank pressure regulator (1/2" soldered) 3350/4S	359,-
AC-ZO-6532/11-M	Shut-off valve 1 3/8" 6532/11	240,-
AC-ZO-6532/17-M	Shut-off valve 2 1/8" 6532/17	720,-
AC-ZO-6532/M28-M	Shut-off valve 28 mm 6532/M28	180,-
AC-ZO-6532/M42-M	Shut-off valve 42 mm 6532/M42	540,-
AC-ZZ-3110/2-M	Check valve 1/4" 3110/2 (CASTEL) (6)	29,-
AC-ZZ-3110/4-M	Check valve 1/2" 3110/4 (CASTEL) screwed (12)	32,-
AC-ZZ-3110/5-M	Check valve 5/8" 3110/5 (CASTEL) screwed (16)	41,-
AC-ZZ-3112/2-M	Check valve 1/4" 3112/2 (CASTEL) screwed (new number 3112W/2)	30,-
AC-ZZ-3112/3-M	Check valve 3/8" 3112/3 (CASTEL) screwed (10) (new number 3112W/3)	31,-
AC-ZZ-3112/4-M	Check valve 1/2" 3112/4 (CASTEL) screwed (12) (new number 3112W/4)	31,-
AC-ZZ-3112/6-M	Check valve 3/4" 3112/6 (CASTEL) screwed (18) (new number 3112W/6)	51,-
AC-ZZ-3182/11-M	Angle check valve 1 3/8" 3182/11 soldered (35)	285,-

# SPECIAL OFFERS

## SPECIAL OFFER - Product List – continued

Code	Description	Price [PLN]
<b>DANFOSS</b>		
D-TSTE-084B7090-M	Transformer 230V/12V AC, 3 VA, e.g. for EKC 201	15,-
D-TZR-067L2087-Z-M	TRE 20 Thermostatic expansion valve R22 Qn 70 kW	570,-
D-ZEK-042H112600-Z-M	EVRA 32 solenoid valve body	1 780,-
D-ZEW-042N0156-PROM--M	Coil plug 042N0156, IP65	15,-
D-ZGK-027L244200-M	Flange for PM-1-40 (42 mm)	400,-
D-STE-080Z4001-UCM	Danfoss AK-SM 850 monitoring master module, LON RS485 communication, EKC Modbus, Ethernet, connection up to 120 controllers	8 610,-
D-STE-080Z4004-UCM	Danfoss AK-SM 820 monitoring master module, LON RS485 communication, EKC Modbus, Ethernet, connection of up to 32 controllers	8 763,-
<b>DORIN</b>		
MDC-DW-1ACS730-M	Additional fan for H1	399,-
MDC-DW-1ACS737-M	Additional fan for H2-H32	460,-
MDC-DW-1ACS781-M	Additional fan for H34	485,-
MDU-S-H40CC-M	H40CC compressor with heater, ester oil (2.89 m3/h)	2 049,-
<b>DORIN CO2</b>		
MDU-S-CD1500M-CZM	CD 1500M compressor + heater + POE 85 oil	15 497,-
MDU-S-CD2000H-CZM	CD 2000H compressor + heater + POE 85 oil	18 366,-
MDU-S-CD2000M-CZM	CD 2000M compressor + heater + POE 85 oil	22 184,-
MDU-S-CD2400H-CZM	CD 2400H compressor + heater + POE 85 oil	22 551,-
MDU-S-CD2500H-CZM	CD 2500 H compressor + heater + POE 85 oil	19 721,-
MDU-S-CD2500M-CZM	CD 2500 M compressor + heater + POE 85 oil	20 460,-
MDU-S-CD3000H-CZM	CD 3000 H compressor + heater + POE 85 oil	20 820,-
MDU-S-CD3001M-CZM	CD 3001 M compressor + heater + POE 85 oil	21 723,-
MDU-S-CD3501H-CZM	CD 3501 H compressor + heater + POE 85 oil	22 296,-
MDU-S-CD3501M-CZM	CD 3501 M compressor + heater + POE 85 oil	22 015,-
MDU-S-CD4501H-CZM	CD 4501 H compressor + heater + POE 85 oil	25 309,-
MDU-S-CD4-75-6,4M-CZM	CD4 75-6,4M compressor + heater + POE 85 oil	15 834,-
MDU-S-CD4-90-6,4H-CZM	CD4 90-6,4H compressor + heater + POE 85 oil	15 565,-
MDU-S-CD4-90-9,2M-CZM	CD4 90-9,2M compressor + heater + POE 85 oil	12 949,-
MDU-S-CD5001M-CZM	CD 5001 M compressor + heater + POE 85 oil	28 817,-
MDU-S-CD5200M-CZM	CD 5200 M compressor + heater + POE 85 oil	14 282,-
MDU-S-CD5201M-CZM	CD 5201 M compressor + heater + POE 85 oil	30 166,-
MDU-S-CD6-700-45M-CZM	CD6 700-45M compressor + heater + POE 85 oil	34 825,-
MDU-S-CD6-701-45M-CZM	CD6 701-45M compressor + heater + POE 85 oil	37 001,-
MDU-S-CD6-800-53M-CZM	CD6 800-53M compressor + heater + POE 85 oil	36 690,-
MDU-S-CDS1201B-CZM	CDS 1201B compressor + heater + POE 85 oil	8 509,-
MDU-S-CDS1501B-CZM	CDS 1501B compressor + heater + POE 85 oil	11 327,-
MDU-S-CDS2001B-CZM	CDS 2001B compressor + heater + POE 85 oil	12 206,-
MDU-S-CDS2401B-CZM	CDS 2401B compressor + heater + POE 85 oil	12 520,-
MDU-S-CDS3001B-CZM	CDS 3001B compressor + heater + POE 85 oil	14 746,-
MDU-S-CDS401B-CZM	CDS 401B compressor + heater + POE 85 oil	5 496,-
MDU-S-CDS501B-CZM	CDS 501B compressor + heater + POE 85 oil	6 441,-
MDU-S-CDS701B-CZM	CDS 701B compressor + heater + POE 85 oil	7 660,-
MDU-S-CDS751B-CZM	CDS 751B compressor + heater + POE 85 oil	9 259,-
MDU-S-CDS901B-CZM	CDS 901B compressor + heater + POE 85 oil	9 106,-

# SPECIAL OFFERS

## SPECIAL OFFER - Product List – continued

Code	Description	Price [PLN]
<b>DORIN propane</b>		
MDU-S-HEX3000CCR-CZM	HEX3000CC compressor + heater + discharge temperature sensor + RW head	14 924,-
MDU-S-HEX3500CCR-CZM	HEX3500CC compressor + heater + discharge temperature sensor + RW head	17 884,-
MDU-S-HEX4000CCR-CZM	HEX4000CC compressor + heater + discharge temperature sensor + RW head	18 048,-
<b>EBM</b>		
EB-STREAMER-400-M	Streamer for 400mm axial fan	90,-
EB-STREAMER-450-M	Streamer for 450mm axial fan	105,-
<b>ELIWELL</b>		
RO-CZ-SN8DEC11502A0-M	SN8DEC11502A0 NTC sensor; range -50÷110°C; dimension 4 x 40 mm with 1.5 m cable; IP67	16,70
RO-STA-SKP10-M	SKP 10 display for Eliwell controllers	80,50
RO-ZKA-SXVB2624VC300-M	SXVB2624VC300 (Castel type: 9901/X08) Cable (3m) for stepper valves; IP65	48,40
RO-ZK-SXVB262320050-M	Electronic stepper valve SXVB262320050 (Castel type: 26232/5) connection 5/8" (16) e.g. for XVD420H controller	454,-
RO-ZK-SXVB263400070-M	Electronic stepper valve SXVB263400070 (Castel type: 26340/7) connection 7/8" (22) e.g. for XVD420H controller	468,-
<b>EUROCOLD</b>		
EC-MAN-100-HP-M	Manometer high pressure table 100 mm	99,-
EC-MAN-100-LP-M	Manometer low pressure table 100 mm	99,-
EC-RK/2-CZ-600-PP-M	Flexible capillary tube black 2x1/4"SAE 600mm. Ozone/UV resistant, straight/straight connection	24,40
EC-RK/2-N-600-PP-M	Flexible blue capillary tube 2x1/4"SAE 600mm. Ozone/UV resistant, straight/straight connection	24,40
EC-RK/2-P-600-PP-M	Flexible capillary tube orange 2x1/4"SAE 600mm. Ozone/UV resistant, straight/straight connection	24,40
<b>EVCO</b>		
EV-CZ-PT100-M	Temperature sensor (pin) PT 100, length 1.5 m ECSND1D1BA3 PVC insulation	130,-
EV-HIG/PR-EVK-512-I7VXBS-M	EVK-512 electronic controller: 1 sensor 0-20 mA or 4-20 mA; 2 relays: hygrostat/pressure switch; TTL port; 230 V AC power supply; panel mounting, without sensor	180,-
EV-STA-CJAV07-M	CJAV07 Connector for C-PRO GIGA RACK	78,-
EV-STA-CPUES0A2-M	C-PRO EXP MICRO - expansion module for C-PRO MICRO RACK, C-PRO NANO RACK, C-PRO MICRO CHIL	200,-
EV-STA-ECTSF-24-M	Transformer ECTSF010 24V AC, 3 VA	13,-
EV-STA-ECTSF-B001-M	Transformer ECTSF001 12V AC, 5.6 VA	31,-
EV-STA-ECTSF-M	Transformer ECTSF000 12V AC, 3 VA	19,-
EV-STA-EPS4B-M	EPS4B capacitor backup module (backup) for EVDRIVE03	400,-
EV-STA-EVIF20TUXI-M	EVIF20TUXI adapter for EVDRIVE03	450,-
EV-STA-EVKEY10-M	EVKEY10 key for copying EVDRIVE03 settings	130,-
EV-STE-CPG2LOC4XXR-M	C-PRO G (Giga) Compressor unit controller, 12 outputs	1 040,-
EV-STE-CPU1D1A2CXC00-M	C-PRO MICRO CHIL chiller controller	370,-
EV-STE-EV3-123N7-M	EV3-123 N7 electronic controller: 2 sensors; 3 relays: compressor/heaters/fans; TTL port; 230 V AC; panel mounting	120,-
<b>Inverters</b>		
AN-ELE-FAL-265-4-M	Arkton (Twerd) 4 kW inverter, output current 9.5 A, overload capacity 150%, power supply: 3-phase 400 V-15%, + 10%, 45-66 Hz, output 0-400 Hz, built-in, IP20	1 580,-
<b>GOKCELER</b>		
GO-ZO-RDCG-200-400-M	Shut-off valve CIV 120/76 on inlet/outlet RDCG 200-400	200,-

# SPECIAL OFFERS

## SPECIAL OFFER - Product List – continued

Code	Description	Price [PLN]
<b>KAIMANN</b>		
IZ-OTUL-10X9-N-M	Cover 10x9; length 120 cm; (228 m)	1,20
IZ-OTUL-15X19-N-M	Cover 15x19; length 120 cm; (67.2 m)	3,60
IZ-OTUL-76X19-N-M	Cover 76x19; length 120 cm; (16.8 m)	12,-
<b>LLOYD</b>		
LD-BERL-105-M	Condenser coil CuAl PS=30 bar; OWN TRANSPORT. Capacity 78.6 kW for dt=15 K R404A, air flow 23900 m3/h; fin pitch 1.81 mm, block length/height 1800/1500 mm; total length/height 1920/1560 mm; CU in/out connections 1x35 mm/2x28 mm	3 100,-
<b>Brazing alloys</b>		
BT-L-3476-M	BrazeTec 3476 uncoated hard solder, Ag 34%, Cu 36%, Zn 27.5%, Sn 2.5%, Si 0.3%, 2x500 mm (kg)	1 515,-
SC-L-5040-BRAZARGENT-3-M	Hard solder without coating 5040, Ag 40%, Cu 30%, Zn 28%, Sn 2%, 3x500 mm (kg)	2 600,-
<b>Compressor oils</b>		
MX-OL-CO85-1L-M	Oil CO 85 (1 l) CO2 supercritical	108,-
MX-OL-CO85-5L-M	Oil CO 85 (5 l) CO2 supercritical	483,-
BK-OL-915109-04-M	Oil B100 (10 L) screw compressors, R22	338,-
<b>PROEX</b>		
PX-KIEL-CH-708M-M	Eccentric flaring tool 6,8,10,12,14,16,19 mm flaring tool (CH-808RM replacement)	222,-
PX-MP-345-UV-M	Flexible gripper (boom) 60 cm with strong magnet and UV diode	27,80
PX-OBCO-TC-105B-M	Cutter blade TC-105	2,80
PX-OBCO-TC-107B-M	Cutter blade TC-107	3,-
PX-OBCO-TC-18B-M	Cutter blade TC-78	3,-
PX-OBCO-TC-274B-M	Cutter blade TC-274 and TC-312	2,80
PX-OZS-BD-04-M	CT hose service valve opener (1/4"SAE)	0,80
PX-ROZTL-CH-193-M	Set of 5 expanding mandrels 1/4", 5/16", 3/8", 1/2", 5/8"	20,80
PX-SPR-CT-102-06-M	Pipe bending spring 3/8" (10 mm)	2,90
PX-SPR-CT-102-08-M	Pipe bending spring 1/2" (12 mm)	4,60
PX-SPR-CT-102-10-M	Pipe bending spring 5/8" (16 mm)	6,-
PX-TPGT-CM-2204-M	Pulse gas discharge silencer 1/2" soldered (2)	39,-
PX-TPGT-CM-2205-M	Pulse gas discharge silencer 5/8" soldered (2)	40,40
PX-TPGT-CM-2305-M	Pulse gas discharge silencer 5/8" soldered (3)	85,10
PX-TPGT-CM-2311-M	Pulse gas discharge silencer 1 1/8" soldered (3)	78,60
PX-TPGT-CM-2411-M	Pulse gas discharge silencer 1 1/8" soldered (4)	91,90
PX-TPGT-CM-2415-M	Pulse gas discharge silencer 1 5/8" soldered (4)	101,-
PX-ZAG-CH-364-08-M	Pipe bender 1/2" (12 mm) max. bending angle 180 degrees	91,80
PX-ZAG-CH-364-10-M	Pipe bender 5/8" (16 mm) max. bending angle 180 degrees	119,-
PX-ZAG-CH-364-12-M	Pipe bender 3/4" (18 mm) max. bending angle 180 degrees	135,-
PX-ZAG-CH-364-14-M	Pipe bender 7/8" (22 mm) max. bending angle 180 degrees	150,-
PX-ZAG-CH-505M-M	Pipe bender 8, 10, 12, 14, 16, 18, 22 mm max. bending angle 90 degrees (only for soft pipes)	208,-
PX-ZAG-CH-684M-M	Pipe bender 14.16 mm max. bending angle 180 degrees	29,50



# SPECIAL OFFERS

## SPECIAL OFFER - Product List – continued

Code	Description	Price [PLN]
<b>ROEN EST</b>		
RU-BERL-109-M	Condenser coil CuAl PS=30 bar; OWN TRANSPORT. Capacity 47 kW for dt=15 K R404A, air flow 24000 m3/h; fin pitch 1.6 mm, coil length/height 1500/1200 mm; total length/height 1810/1260 mm; CU connections in/out 1x 28 mm/2x 22 mm	<b>3 100,-</b>
RU-DD.M.35.2.06-4M-E- -M	Double-sided cooler DD.M.35.2.06-4M-E alupaint, with heaters	<b>4 300,-</b>
RU-E2.245HX BT-M	E2.245 HX BT evaporator, DN100 + feet + 20 mm casing, capacity 200 kW, pressure drop 38 kPa	<b>11 000,-</b>
<b>TECNAC</b>		
TC-ZL-RHC-45-B-Z-U-M	Freon tank RHC-45-B 45 L, horizontal green, damaged thread of the inlet shut-off valve connection (sight glass, outlet and inlet shut-off valve, compressor mounting), connection to the safety valve 1/2"	<b>1 200,-</b>
<b>WEIGUANG</b>		
WG-W-YWF4E-250-S-M	Axial fan 250 mm, 220 V, 20/50 W, without box, without capacitor, without cover, suction	<b>50,-</b>
<b>WITZENMANN</b>		
WN-DN-100-M	Hydra vibration damper, copper connection Ø 108 mm, length 800 mm	<b>1 000,-</b>
WN-DN-10-M	Hydra vibration damper, copper connection Ø 12 mm, length 220 mm	<b>32,-</b>
WN-DN-65-M	Hydra vibration damper, copper connection Ø 76 mm, length 635 mm	<b>520,-</b>
WN-DN-8-M	Hydra vibration damper, copper connection Ø 10 mm, length 200 mm	<b>32,-</b>
<b>ZIEHL-ABEGG</b>		
ZA-STREAMER-450-M	Streamer for 450mm axial fan	<b>99,-</b>
<b>OTHER PRODUCTS</b>		
MX-BIOPOWER C-RTU-SPR-M	Westclean Biopower C RTU 500 ml with sprayer, strong cleaning agent for professional use for washing refrigerated counters, condensers, etc. PZH certificate, diluted	<b>18,-</b>
COP-OMTQ-10033-M	Copeland - signal cable for communication between Easy cool units	<b>56,-</b>