



PRICE LIST 2024

STOCK EQUIPMENT

15 October 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 ₀ [kW] for R404A/R507 at evaporation/condensing temperature [°C]			Cooling capacity Q ₀ [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	1 003,-
2JES-07Y	4,74	3,25	1,29	4,72	3,1	1,09	1 014,-
2HES-1Y	-	4,09	1,65	-	3,95	1,43	1 023,-
2HES-2Y	6,06	4,09	1,65	5,97	3,95	1,43	1 044,-
2GES-2Y	6,91	4,79	1,99	7	4,65	1,7	1 044,-
2FES-2Y	-	5,96	2,45	-	5,87	2,16	1 087,-
2FES-3Y	8,56	5,93	2,44	8,83	5,87	2,16	1 139,-
2EES-2Y	-	7,67	3,18	-	7,29	2,73	1 529,-
2EES-3Y	11,07	7,67	3,18	10,9	7,29	2,73	1 649,-
2DES-2Y	-	9,17	3,85	-	8,7	3,31	1 590,-
2DES-3Y	13,18	9,17	3,85	12,99	8,7	3,31	1 657,-
2CES-3Y	-	11,28	4,83	-	10,71	4,16	1 649,-
2CES-4Y	16,15	11,28	4,83	15,92	10,71	4,16	1 719,-
4FES-3Y	-	12,26	5,14	-	11,79	4,52	1 773,-
4FES-5Y	17,81	12,26	5,14	17,6	11,79	4,52	1 957,-
4EES-4Y	-	15,55	6,52	-	14,79	5,64	1 815,-
4EES-6Y	22,4	15,39	6,38	22,1	14,79	5,64	2 081,-
4DES-5Y	-	18,53	7,79	-	17,41	6,6	2 281,-
4DES-7Y	26,9	18,54	7,79	26,1	17,41	6,6	2 397,-
4CES-6Y	-	22,4	9,31	-	21,4	8,3	2 505,-
4CES-9Y	32,6	22,4	9,31	31,9	21,4	8,3	2 603,-
4BES-9Y	-	24,7	10,22	-	23,6	9,11	2 906,-
4VES-7Y	-	23,5	9,28	-	22,3	8,14	3 264,-
4VES-10Y	34,7	23,5	9,3	33,9	22,4	8,16	3 396,-
4TES-9Y	-	28,5	11,5	-	27,1	10,15	3 350,-
4TES-12Y	41,7	28,5	11,46	40,8	27,1	10,11	3 497,-
4PES-12Y	-	32,7	12,8	-	31	11,2	3 634,-
4PES-15Y	48,2	32,5	13,68	47	30,9	11,09	3 792,-
4NES-14Y	-	38,8	15,64	-	36,9	13,8	4 094,-
4NES-20Y	56,9	38,8	15,66	55,6	36,9	13,83	4 344,-
4JE-15Y	-	44,3	18,6	-	42,3	16,49	5 115,-
4JE-22Y	63,0	43,4	17,8	61,6	41,4	15,66	5 646,-
4HE-18Y	-	51,7	22,0	-	49,4	19,63	5 382,-
4HE-25Y	73,6	51,0	21,4	72,1	48,7	18,99	5 662,-
4GE-23Y	-	59,8	25,9	-	52,2	23,1	6 039,-

COMPRESSORS, TANDEM, ACCESSORIES



BITZER semi-hermetic piston compressors ECOLINE – continued

Type	Cooling capacity Q _o [kW] for R404A/R507 at evaporation/condensing temperature [°C]			Cooling capacity Q _o [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
4GE-30Y	84,4	58,6	25,8	82,6	56	22	6 293,-
4FE-28Y	-	70,5	30,9	-	67,6	27,7	6 262,-
4FE-35Y	99,8	70	30,4	98	67	27,2	6 521,-
6JE-25Y	-	65,9	27,7	-	62,9	24,6	6 634,-
6JE-33Y	93,3	64,2	26,2	91,3	61,2	23,1	7 623,-
6HE-28Y	-	75,9	32,4	-	72,6	28,9	6 836,-
6HE-35Y	108	74,9	31,5	105,8	71,5	28	7 841,-
6GE-34Y	-	87,9	38,9	-	84,4	35	7 841,-
6GE-40Y	122,2	85,2	36,4	119,9	81,5	32,4	8 375,-
6FE-44Y	-	105,7	46,3	-	101,3	41,5	9 501,-
6FE-50Y	148,5	103,8	44,6	145,7	99,4	39,8	9 757,-

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

Optional equipment:

Capacity regulation: 1x head prepared +

solenoid valve - **259,- EUR**

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

MP54 / DeltaP II for 4JE - 6FE - **174,-/157,- EUR**

Cylinder head fan:

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

2EES-2CES - **240,- EUR** - code: BC-DW-343021-12-M

4FES-4CES - **239,- EUR** - code: BC-DW-343021-29-M

4VES-4NES - **239,- EUR** - code: BC-DW-343021-27-M

4JE-4FE - **312,- EUR** - code: BC-DW-343021-22-M

6JE-6FE - **312,- EUR** - code: BC-DW-343021-23-M

* Until stock last

BITZER tandem compressors ECOLINE

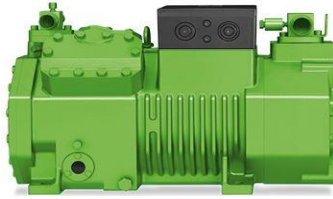
Type	Cooling capacity Q _o [kW] for R404A/R507 at evaporation/condensing temperature [°C]			Cooling capacity Q _o [kW] for R449A/R448A at evaporation/condensing temperature [°C]			Price [EUR]
							Standard execution
	+5/+40	-5/+40	-25/+40	+5/+40	-5/+40	-25/+40	Tandem compressors with capacity regulation (2x) and crankcase heaters (2x)
44EES-12Y	44,8	30,8	12,8	44,2	26,6	11,28	4 363,-
44DES-14Y	53,8	37,1	15,6	52,1	34,8	13,2	5 007,-
44CES-18Y	65,2	44,8	18,6	63,8	42,8	16,6	5 427,-

Optional equipment

Solenoid valve for capacity regulation (1 pc.) **198,- EUR**

COMPRESSORS

CO₂



2...SL...



4...TC...

SUBCRITICAL semi-hermetic piston compressors

Type	Cooling capacity Q _o [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	1 747,-	
2HSL-3K-40S	9,28	7,36	5,71	1 798,-	
2FSL-4K-40S	13,97	11,22	8,86	1 822,-	

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 _o [kW] for R744 at evaporating/ output from gas cooler temperature [°C]			Price [EUR]	
	-5/+25	-5/+35	-5/+45	Compressor	Crankcase heater
				Standard execution	
4MTE-10K-40S	19,68	14,94	11,74	5 113,-	S
4KTE-10K-40S	29,20	22,10	16,73	5 229,-	S
4HTE-20K-40S	37,20	28,60	22,80	6 533,-	S
4FTE-20K-40P	55,70	42,60	32,60	6 972,-	S
4FTE-30K-40S	55,60	43,80	35,50	7 920,-	S

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

NOTE: Components for CO₂ installations can be found in a separate price list

COMPRESSORS, TANDEM, ACCESSORIES



BITZER SCROLL compressors for R410A and R32

Type	Cooling capacity Q _o [kW] for R410 at evaporating/condensing temperature [°C]			Cooling capacity Q _o [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	-	-	-	2 426,-	42,-	17,-
GSD-60154VAB4	38,6	32,4	27	-	-	-	2 523,-	42,-	17,-
GSD-60182VLB4	45,4	38,2	31,9	48,8	41,1	34,4	2 685,-	42,-	17,-
GSD-60235VLB4	58,7	49,4	41,2	63,3	53,3	44,5	3 242,-	42,-	17,-
GSD-80295VLB4	75,6	63,3	52,7	80,0	67,2	56	3 630,-	47,-	17,-
GSD-80385VLB4	99,1	83,3	69,5	105,3	88,8	74,4	4 058,-	47,-	17,-
GSD-80421VLB4	106,5	89,1	74,1	113,6	95,8	80,1	4 434,-	47,-	17,-
GSD-80485VLB4	121,4	102	85,1	128,3	108,4	90,8	4 805,-	47,-	17,-



MANEUROP hermetic piston compressors

Type	Cooling capacity Q _o [kW] for R404A/R507 at evaporation/condensing temperature [°C]			Cooling capacity Q _o [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	664,-	39,10
MTZ-36	10,23	6,91	5,55	9,39	6,07	4,77	175PZ	400/3/50	678,-	39,10
MTZ-50	14,43	9,50	7,52	13,28	8,34	6,44	175PZ	400/3/50	909,-	39,10
MTZ-64	18,35	12,05	9,55	16,66	10,68	8,32	175PZ	400/3/50	951,-	39,10
MTZ-80	22,69	15,39	12,42	21,68	14,18	11,22	175PZ	400/3/50	1 337,-	39,10

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	1,70	1,13	0,91	1,67	1,07		
AE 4470 Z	1,97	1,32	1,06	1,94	1,25	0,99	230/1/50	293,-
CAJ 9480 Z ¹⁾	2,39	1,54	1,21	2,35	1,46	1,13	230/1/50	402,-
CAJ 9510 Z ¹⁾	2,97	1,92	1,52	2,92	1,82	1,41	230/1/50	417,-
CAJ 9513 Z ¹⁾	3,87	2,47	1,93	3,81	2,35	1,79	230/1/50	440,-
CAJ 4517 Z ¹⁾	4,21	2,73	2,17	4,15	2,60	2,01	230/1/50	457,-
TAJ 4517 Z ¹⁾	4,26	2,75	2,17	4,20	2,62	2,01	400/3/50	460,-
TAJ 4519 Z ¹⁾	5,32	3,49	2,78	5,24	3,32	2,58	400/3/50	488,-
FH 4524 Z-XG ²⁾	6,62	4,19	3,23	6,52	3,98	3,00	400/3/50	678,-
FH 4532 Z-XG ²⁾	7,97	5,06	3,94	7,72	4,81	3,70	400/3/50	710,-
TAG 4546 Z ²⁾	12,92	7,82	5,90	12,74	7,43	5,48	400/3/50	870,-
TAG 4553 Z TZ ²⁾	14,51	8,84	6,70	14,30	8,40	6,23	400/3/50	894,-
TAG 4561 Z TZ ²⁾	15,95	9,88	7,58	15,71	9,38	7,05	400/3/50	961,-
AG4573P-TZ ²⁾	19,53	12,38	9,65	19,25	11,76	8,97	400/3/50	1 069,-

¹⁾ Compressor equipped with suction shut-off valve

²⁾ 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	0,98	0,73	0,52	0,90	0,64		
CAJ 2464 Z	1,27	0,94	0,68	1,16	0,83	0,58	230/1/50	440,-
FH-2480-Z-XG ²⁾	1,83	1,34	0,92	1,67	1,19	0,78	400/3/50	758,-
FH-2511-Z-XG ²⁾	2,86	2,03	1,37	2,60	1,80	1,16	400/3/50	779,-
TAG 2516 Z	3,65	2,66	1,92	3,39	2,36	1,56	400/3/50	957,-

²⁾ 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 _o [kW] with economizer for R404A/R507 at evaporating/condensing temperature [°C]			Cooling capacity Q _o [kW] with economizer for R449A/R448A at evaporating/condensing temperature [°C]			Price [EUR]				
							Compressor	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	10 418,-	69,-	177,-	S	S
HSN 7461-70	98,4	65,9	52,7	89,1	58,2	45,9	11 408,-	114,-	177,-	S	S
HSN 7471-75	103,3	69,8	56,2	94,3	62,2	49,5	13 150,-	114,-	177,-	S	S
HSN 8571-125 ¹⁾	169,6	114,4	92,0	156,0	103,5	82,7	19 378,-	270,-	255,-	679,-	123,-
HSN 8591-160 ¹⁾	212,0	142,0	113,8	194,9	128,4	101,9	21 127,-	270,-	255,-	679,-	123,-

¹⁾ Compressor equipped with shut-off valve for oil injection

54,- 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 ³ /h] LT range	Maximal oil charge [dm ³]	Price [EUR]		
			Oil separator	Equipment	
				Outlet shut-off valve	Adapter for safety-valve (option)
OA 1954	300	18	1 978,-	26,-	34,-
OA 4188	660	40	3 237,-	65,-	34,-
OA 9111	1320	90	5 409,-	65,-	34,-

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

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 ³]	Connections [mm]	Capacity ¹⁾ 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	1 022,-
OL-2P	OL – 2+	1	15	Ø 28	31,6	1 589,-
OL-3	OL – 3	2	15	Ø 35	36,1	2 012,-
OL-3P	OL – 3+	2	23	Ø 35	52,7	2 392,-
OL-4	OL – 4	2	27	Ø 35	63,1	2 781,-

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

FREQUENCY INVERTERS

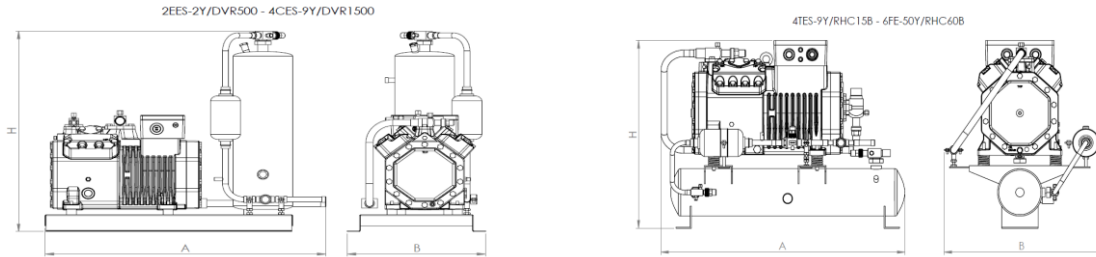
FREQUENCY INVERTERS with software for refrigeration application, with programming panel

Code	Output power [kW]	I fal - rated current [A]	Description	Price [EUR]
VFD075CP43B-21	7,5	12	LCD display, IP20, RS485 + Modbus RTU or BackNe, 3x AI (U or I), 2 AO (U or I), 10DI, 3DO, software for refrigeration applications	638,-
VFD110CP43B-21	11	18		682,-
VFD150CP43B-21	15	24		901,-
VFD185CP43B-21	18,5	32		1 115,-
VFD220CP43A-21	22	38		1 258,-
DOP-103DQ	Programming panel HMI 4.3", 65536 TFT. USB client/Host. 2x COM (1 slot) Ethernet			431,-
CMC-EIP01*	Ethernet/IPO and modbus TCP card			90,-
EMC-R6AA	Extension card; 6 relay outputs			55,20
TD320009B ¹⁾	LP transducer 0-10 bar, 4-20 mA			56,-
TD320030B ¹⁾	HP transducer 0-30 bar, 4-20 mA			56,-

* Until stock last

¹⁾ 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 ¹⁾	2 253,-	860	420	430	88	15	22	10	10
AS-2EES-3Y/DVR700 ¹⁾	2 349,-	860	420	550	93	15	22	12	12
AS-2DES-2Y/DVR500 ¹⁾	2 311,-	860	420	430	88	15	22	10	10
AS-2DES-3Y/DVR700 ¹⁾	2 326,-	860	420	550	94	15	22	12	12
AS-2CES-3Y/DVR700 ¹⁾	2 318,-	860	420	550	93	15	22	12	12
AS-2CES-4Y/DVR1100 ¹⁾	2 411,-	860	420	560	96	15	22	12	12
AS-4FES-3Y/DVR700 ¹⁾	2 436,-	860	420	550	106	15	22	12	12
AS-4FES-5Y/DVR1100	2 672,-	860	420	560	113	15	22	12	15
AS-4EES-4Y/DVR1100	2 448,-	860	420	560	111	15	28	12	12
AS-4EES-6Y/DVR1500	2 786,-	860	420	720	117	15	28	15	15
AS-4DES-5Y/DVR1100	2 987,-	860	420	560	113	22	28	12	15
AS-4DES-7Y/DVR1500	3 118,-	860	420	720	119	22	28	15	15
AS-4CES-6Y/DVR1500	3 221,-	860	420	720	121	22	28	15	15
AS-4CES-9Y/DVR1500	3 309,-	860	420	720	122	22	28	15	18
AS-4TES-9Y/RHC15B	4 273,-	870	580	630	165	28	35	22	18
AS-4TES-12Y/RHC30B	4 478,-	890	580	700	187	28	35	28	22
AS-4PES-12Y/RHC30B	4 671,-	890	580	700	185	28	35	28	18
AS-4PES-15Y/RHC30B	4 744,-	910	590	700	188	28	42	28	22
AS-4NES-14Y/RHC30B	5 063,-	890	580	700	187	28	35	28	22
AS-4NES-20Y/RHC30B	5 267,-	910	590	700	197	28	42	28	22
AS-4JE-15Y/RHC30B ¹⁾	5 729,-	890	560	770	229	28	42	28	22
AS-4JE-22Y/RHC30B	5 964,-	890	560	770	240	28	42	28	22
AS-4HE-18Y/RHC30B	5 740,-	890	560	770	233	28	42	28	22
AS-4HE-25Y/RHC45B	6 345,-	1310	560	770	268	28	54	28	28
AS-4GE-23Y/RHC30B	6 297,-	890	560	770	243	28	54	28	22
AS-4GE-30Y/RHC45B	6 877,-	1310	560	770	271	28	54	28	28
AS-4FE-28Y/RHC45B	6 854,-	1310	560	770	272	28	54	28	28
AS-4FE-35Y/RHC45B ¹⁾	7 115,-	1310	590	770	274	28	54	28	28
AS-4FE-35Y/RHC60B	7 176,-	1270	610	870	290	28	54	35	28
AS-6HE-28Y/RHC45B	7 373,-	1310	590	770	292	35	54	28	28
AS-6HE-35Y/RHC60B ¹⁾	8 326,-	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	8 223,-	1310	590	770	296	35	54	28	28
AS-6GE-40Y/RHC60B	8 779,-	1200	610	870	322	35	54	35	35
AS-6FE-44Y/RHC60B	9 811,-	1200	580	870	323	42	54	35	35
AS-6FE-50Y/RHC60B	9 986,-	1220	610	870	326	42	54	35	35

¹⁾ 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 _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q _o [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 ¹⁾	Set of capillary hoses for pressure switches ²⁾
AA-BK-33/2KES-05Y	3,52	2,57	1,12	3,26	2,31	0,9	1 879,-	487,-	BKA
AA-BK-33/2JES-07Y	4,38	3,26	1,51	4,02	2,86	1,2	1 893,-	487,-	BKA
AA-BK-44/2HES-1Y	-	4,19	1,95	-	3,88	1,57	1 982,-	487,-	BKA
AA-BK-44/2HES-2Y	5,75	4,28	1,99	5,49	3,88	1,57	2 003,-	487,-	BKA
AA-BK-44/2GES-2Y	6,28	4,73	2,27	6,18	4,42	1,82	2 003,-	487,-	BKA
AA-BK-44/2FES-2Y	-	5,5	2,71	-	5,28	2,26	2 046,-	487,-	BKA
AA-BK-44/2FES-3Y	7,12	5,49	2,7	7,26	5,28	2,27	2 098,-	487,-	BKA
AA-BK-53/2FES-3Y	7,75	5,85	2,84	7,62	5,28	2,27	2 217,-	697,-	BKB
AA-BK-44/2EES-2Y	-	6,58	3,35	-	6,31	2,79	2 476,-	487,-	BKA
AA-BK-53/2EES-2Y	-	6,86	3,34	-	6,59	2,87	2 597,-	697,-	BKB
AA-BK-64/2EES-3Y	10,94	8,09	3,75	10,87	7,58	3,1	2 958,-	697,-	BKB
AA-BK-53/2DES-2Y	-	7,91	4,06	-	7,47	3,37	2 656,-	697,-	BKB
AA-BK-64/2DES-3Y	12,43	9,32	4,43	12,58	8,84	3,7	2 966,-	697,-	BKB
AA-BK-64/2CES-3Y	-	10,9	5,38	-	10,55	4,53	2 958,-	697,-	BKB

CONDENSING UNITS



TAURUS condensing units with BITZER ECOLINE compressors – continued

Type	Cooling capacity Q _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q _o [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 ¹⁾	Set of capillary hoses for pressure switches ²⁾
AA-BK-84/2CES-4Y	15,78	11,77	5,6	15,52	10,95	4,66	3 261,-	697,-	BKB
AA-BK-64/4FES-3Y	-	11,56	5,65	-	11,41	4,9	3 081,-	697,-	BKB
AA-BK-84/4FES-5Y	16,93	12,57	5,89	16,83	11,89	5,05	3 491,-	697,-	BKB
AA-BK-64/4EES-4Y	-	13,56	6,89	-	13,64	5,96	3 121,-	697,-	BKB
AA-BK-84/4EES-6Y	19,83	14,95	7,15	20,07	14,32	6,17	3 610,-	697,-	BKB
AA-BK-104/4EES-6Y	21,4	15,8	7,36	21,51	15,16	6,41	4 260,-	1 478,-	BKC
AA-BK-84/4DES-5Y	-	17,1	8,45	-	16,29	7,07	3 802,-	697,-	BKB
AA-BK-104/4DES-7Y	24,4	18,28	8,76	24,51	17,39	7,41	4 574,-	1 478,-	BKC
AA-BK-114/4DES-7Y	25,4	18,86	8,94	25,34	17,81	7,48	4 869,-	1 529,-	BKC
AA-BK-84/4CES-6Y	-	19,5	9,79	-	19,13	8,6	4 018,-	697,-	BKD
AA-BK-104/4CES-6Y	-	20,8	10,09	-	20,6	9,03	4 678,-	1 478,-	BKC
AA-BK-114/4CES-9Y	29,2	21,8	10,45	29,79	21,21	9,17	5 068,-	1 529,-	BKC
AA-BK-124/4CES-9Y	31,2	23	10,77	30,87	21,88	9,39	5 601,-	1 680,-	BKD
AA-BK-104/4BES-9Y	-	23,35	11,28	-	22,07	9,77	5 063,-	1 478,-	BKC
AA-BK-104/4TES-9Y	-	24,5	12,2	-	24,59	10,78	5 494,-	1 478,-	BKC
AA-BK-124/4BES-9Y	-	25,28	11,83	-	23,57	10,17	5 875,-	1 680,-	BKD
AA-BK-114/4TES-9Y	-	25,8	12,54	-	25,59	10,99	5 794,-	1 529,-	BKC
AA-BK-124/4TES-12Y	37	27,6	12,99	37,26	26,52	11,31	6 487,-	1 680,-	BKD
AA-BK-114/4PES-12Y	-	28,1	13,7	-	28,25	12,02	6 092,-	1 529,-	BKC
AA-BK-135/4PES-15Y	45,9	33,5	15,06	45,09	31,51	12,82	7 369,-	1 643,-	BKD
AA-BK-124/4NES-14Y	-	34,2	16,8	-	33,64	14,78	7 061,-	1 680,-	BKD
AA-BK-135/4NES-14Y	-	38,4	17,9	-	36,55	15,43	7 659,-	1 643,-	BKD
AA-BK-135/4NES-20Y	51,8	38,4	17,94	51,57	36,56	15,51	7 900,-	1 643,-	BKD
AA-BK-135/4JE-15Y	-	42,50	20,70	-	40,98	18,03	8 223,-	1 643,-	BKD
AA-BK-135/4HE-18Y	-	47,40	23,80	-	46,28	20,96	8 234,-	1 643,-	BKD
AA-BK-135/4HE-25Y	61,10	47,00	23,30	62,35	45,59	20,46	8 468,-	1 643,-	BKD
AA-BK-135/4GE-23Y	-	52,00	27,10	-	51,54	24,13	8 783,-	1 643,-	BKD
AA-BK-135/4FE-28Y	-	56,60	30,40	-	58,17	28,11	8 970,-	1 643,-	BKD
AA-BK-135/6HE-28Y	-	62,43	32,30	-	60,98	29,03	9 450,-	1 643,-	BKD

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

²⁾ 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) - **259,-** 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 - **174,- / 157,-** EUR

CONDENSING UNITS

HOUSING FOR CONDENSING UNITS ¹⁾

Code	Description	Price [EUR]
AN-AA-OB-33-M	Housing for condensing unit AA-BK-33..	487,-
AN-AA-OB-44-M	Housing for condensing unit AA-BK-44..	487,-
AN-AA-OB-53-M	Housing for condensing unit AA-BK-53..	697,-
AN-AA-OB-64-M	Housing for condensing unit AA-BK-64..	697,-
AN-AA-OB-84-M	Housing for condensing unit AA-BK-84..	697,-
AN-AA-OB-104-M	Housing for condensing unit AA-BK-104..	1 478,-
AN-AA-OB-114-M	Housing for condensing unit AA-BK-114..	1 529,-
AN-AA-OB-124-M	Housing for condensing unit AA-BK-124..	1 680,-
AN-AA-OB-135-M	Housing for condensing unit AA-BK-135..	1 643,-

¹⁾ 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 ²⁾

Type	Cooling capacity Q _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q _o [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	11 463,-
AA-BK-R090/4GE-30Y	81,4	60,6	28,7	78,1	56,7	25,1	12 584,-
AA-BK-R098/4FE-35Y	94	70,9	34,6	90,6	66,7	30,4	13 256,-
AA-BK-R076/4FE-28Y	-	66,9	33,8	-	63,4	29,9	12 074,-
AA-BK-R076/6HE-28Y	-	70,8	35,4	-	66,7	31,1	12 632,-
AA-BK-R113/6HE-35Y	103,6	77	36,5	99,3	72	31,9	14 776,-
AA-BK-R076/6GE-34Y	-	77,9	40,9	-	74,2	36,4	13 472,-
AA-BK-R126/6GE-40Y	116,6	87,3	41,8	112	81,8	36,7	15 748,-
AA-BK-R090/6FE-44Y	-	93,1	48,7	-	88,7	43,2	15 389,-
AA-BK-R140/6FE-50Y	137,5	104	50,6	132,5	97,8	44,5	17 657,-

²⁾ Condensing units, delivery time 2 weeks

Basic options (other - please contact sales department):

1 x complete capacity regulation - 259,- EUR

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

MP54 / DeltaP II
BKD

- 174,- / 157,- EUR

- 41,60 EUR

CONDENSING UNITS

TAURUS condensing units with BITZER two-stage compressors ¹⁾

Type	Cooling capacity Q _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]		Cooling capacity Q _o [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 ²⁾
AA-BK-104/S4T-5.2Y	7,53	5,12	6,17	4,01	8 725,-	BKC
AA-BK-104/S4N-8.2Y	10,58	7,22	8,65	5,67	9 139,-	BKC
AA-BK-124/S4G-12.2Y	16,36	11,64	13,04	8,51	11 224,-	BKD
AA-BK-135/S6J-16.2Y	23,04	16,46	19,58	12,79	13 335,-	BKD
AA-BK-135/S6H-20.2Y	26,43	18,93	22,47	14,68	13 519,-	BKD
AA-BK-135/S6G-25.2Y	29,93	21,52	25,54	16,68	14 417,-	BKD
AA-BK-R066/S6G-25.2Y	30,31	21,76	26,00	17,00	15 849,-	BKD
AA-BK-R066/S6F-30.2Y	35,70	25,68	30,72	20,08	17 333,-	BKD

¹⁾ Condensing units, delivery time 2-3 weeks

Basic options (other - please contact sales department):

MP54 / DeltaP II - **174,- / 157,-** EUR

Discharge temperature sensor - **101,-** EUR

²⁾ 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 _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q _o [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 ³⁾	6,84	4,96	1,99	6,46	4,44	1,75	3,0	MKA	1 460,-
AA-MKN/MTZ-36 ³⁾	8,16	6,20	2,74	7,91	5,62	2,18	5,0	MKB	1 623,-
AA-MKN/MTZ-50 ³⁾	13,09	9,40	3,88	12,44	8,41	2,95	7,0	MKB	2 063,-
AA-MKN/MTZ-64 ³⁾	16,53	11,91	4,95	15,53	10,63	3,86	7,0	MKB	2 255,-
AA-MKN/MTZ-80 ³⁾	21,37	15,63	6,80	20,05	13,99	5,48	7,0	MKC	2 861,-
AA-MKN/MTZ-100 ^{3) 4)}	25,73	18,60	7,52	23,78	16,34	5,91	12,5	MKC	3 376,-

³⁾ Compressors charged with oil type 175PZ

⁴⁾ 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 _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q _o [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 _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q _o [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,-



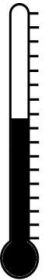
* Until stock last

CONDENSING UNITS



TECUMSEH SILENSYS MT condensing units

Type	Cooling capacity Q _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q _o [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	1 823,-
SILAJ-9513-ZFZ	3,61	2,54	2,09	3,52	2,38	1,91	230/1/50	1 919,-
SILAJ-4517-ZTZ	3,94	2,76	2,27	3,72	2,53	2,03	400/3/50	2 011,-
SILAJ-4519-ZTZ	4,70	3,35	2,77	4,47	3,08	2,51	400/3/50	2 192,-
SILFH-4532-Z-XG	7,33	5,38	4,50	6,91	4,84	3,95	400/3/50	2 672,-



TECUMSEH SILENSYS LT condensing units

Type	Cooling capacity Q _o [kW] for R404A/R507 at evaporation/ambient temperature [°C]			Cooling capacity Q _o [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	1 979,-
SILFH-2480-Z-XG ¹⁾	2,56	2,05	1,60	2,22	1,71	1,27	400/3/50	2 317,-
SILFH-2511-Z-XG	3,52	2,77	2,12	3,15	2,40	1,77	400/3/50	2 511,-



¹⁾ Condensing units with 1 week delivery time

CONDENSING UNITS

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

Condensing unit ¹⁾	Cooling capacity Q _o [kW] for R449A/R448A at evaporating/condensing temperature [°C]								Condensing unit	Options			
	-10/+27				-35/+27					Fan for compressor cooling ²⁾	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	7 141,-	258,-	126,-	543,-	176,-
MM2-BK-C24YV	5,53	9,16	12,35	13,69	1,55	2,68	3,72	4,25	7 199,-	258,-	126,-	543,-	176,-
MM2-BK-F45YH	6,18	10,30	13,46	15,20	1,68	2,90	3,95	4,46	7 617,-	258,-	131,-	543,-	176,-
MM2-BK-E46YH	7,64	12,24	15,94	17,46	2,13	3,54	4,87	5,49	7 789,-	258,-	131,-	543,-	176,-
MM2-BK-D47YH	8,71	15,07	19,69	21,46	2,42	4,18	5,57	6,22	8 731,-	258,-	131,-	543,-	176,-
MM2-BK-C49YH	11,22	18,85	23,40	26,05	3,11	5,27	7,32	8,21	9 172,-	258,-	131,-	543,-	176,-
MM2-BK-B49YH	12,33	20,70	24,90	27,80	3,41	5,78	8,02	9,07	9 456,-	258,-	131,-	543,-	176,-
MM2-BK-V410YH	11,53	18,68	24,20	26,74	2,96	5,11	6,76	7,73	10 363,-	227,-	150,-	543,-	176,-
MM2-BK-T412YH	13,75	21,90	28,50	31,43	3,72	6,43	8,55	9,77	10 765,-	227,-	150,-	543,-	176,-
MM2-BK-P415YH	15,78	24,90	31,80	35,31	3,99	6,90	9,11	10,41	11 316,-	227,-	150,-	543,-	176,-
MM2-BK-N420YH	19,47	31,90	40,20	45,94	5,14	8,82	11,74	12,85	13 296,-	227,-	150,-	543,-	176,-

¹⁾ Condensig units, delivery time 2 weeks

²⁾ 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	2 101,-	192,-	108,30
CLS-412-039N	CLS-412324	H / V	2 x 450/550/3	39	34	38	33	2 203,-	192,-	108,30
CLR-412-046N	CLR-412324	H / V	2 x 450/550/3	46	40	45	39	2 376,-	192,-	108,30
CLS-512-053N	CLS-512424	H / V	2 x 500/850/3	53	46	52	45	2 652,-	192,-	108,30
CLR-512-060N	CLR-512424	H / V	2 x 500/850/3	60	51	58	49	2 872,-	192,-	108,30
CLR-512-066N	CLR-512524	H / V	2 x 500/850/3	66	54	64	53	3 147,-	192,-	108,30
CLS-413-071N	CLS-413424	H / V	3 x 450/550/3	71	62	68	60	3 505,-	256,-	144,40
CLR-513-076N	CLR-513324	H / V	3 x 500/850/3	76	67	74	65	3 594,-	256,-	144,40
CHR-612-086L	CHR-612426	H / V	2 x 630/690/3	86	75	82	71	3 993,-	219,-	108,30
CLR-513-090N	CLR-513424	H / V	3 x 500/850/3	90	76	88	74	3 976,-	256,-	144,40
CLR-513-098N	CLR-513524	H / V	3 x 500/850/3	98	82	96	79	4 354,-	256,-	144,40
CHR-612-113N	CHR-612424	H / V	2 x 630/2000/3	113	99	109	96	4 631,-	219,-	108,30
CJR-613-125L	CJR-613326	H / V	3 x 630/690/3	125	113	119	107	5 533,-	292,-	144,40
CJR-612-126N	CJR-612424	H / V	2 x 630/2000/3	126	112	122	108	5 098,-	219,-	108,30
CJR-612-140N	CJR-612524	H / V	2 x 630/2000/3	140	121	136	117	5 594,-	219,-	108,30
CHR-613-169N	CHR-613424	H / V	3 x 630/2000/3	169	148	164	144	6 519,-	292,-	144,40
CJR-613-190N	CJR-613424	H / V	3 x 630/2000/3	190	168	184	163	7 179,-	292,-	144,40
CJR-613-210N	CJR-613524	H / V	3 x 630/2000/3	210	181	203	175	7 869,-	292,-	144,40
CJR-614-253N	CJR-614424	H / V	4 x 630/2000/3	253	224	245	217	9 293,-	365,-	180,50
CJR-614-280N	CJR-614524	H / V	4 x 630/2000/3	280	241	271	234	10 174,-	365,-	180,50

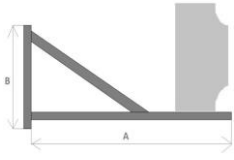
COMPONENTS FOR CONDENSING UNITS SELF ASSEMBLY

LH condenser coils

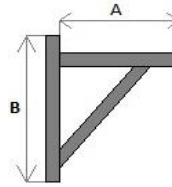
Condenser	Condenser coil			Designed for fans (q-ty x D [mm])	Price [EUR]	
	Galvanized (not painted)	Galvanized and painted			Condenser coil galvanized (not painted)	Coil painted
		Black	Green			
LH32	-	-	BSH-32-ZB*	1 x 350	-	107,-
LH33	BSH-33-B	-	BSH-33-ZB	1 x 350	177,-	195,-
LH44	BSH-44-B	BSH-44-CB	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

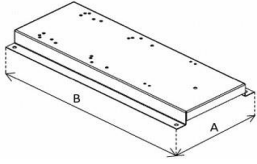
SUPPORTS, BASE PLATES, FRAMES



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	71,-	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	71,-	Support for condensers from LH33 to LH104
TL-WSP-2.0-80-M	800	500	65	75,-	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	67,-	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	121,-
AN-AA-P-PODST-P-53-84-M	Green for LH 53; 64; 84	196,-
AN-AA-P-RAMA-104-M	Green for LH 104	384,-
AN-AA-P-RAMA-114-M	Green for LH 114	485,-
AN-AA-P-RAMA-124-135-M	Green for LH 124 - 135	393,-

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	51,50
YWF4E-300/85W-S	85 / 0,42	230V-1-50 Hz	1380	300	1845	3,3	57,20
YWF4E-350/126W-S	126 / 0,65	230V-1-50 Hz	1420	350	2450	4,9	72,90
YWF4E-400/180W-S	180 / 0,82	230V-1-50 Hz	1380	400	3955	5,6	78,70
YWF4E-450/250W-S	250 / 1,15	230V-1-50 Hz	1350	450	5355	7,2	88,70
YWF4D-450/250W-S	250 / 0,55	400V-3-50 Hz	1350	450	5415	7,2	87,20
YWF4E-450/370W-S	370 / 1,70	230V-1-50 Hz	1360	450	5890	8,5	106,-
YWF4D-450/375W-S	375 / 0,77	400V-3-50 Hz	1360	450	5910	8,5	100,-
YWF4E-500/380W-S	380 / 1,85	230V-1-50 Hz	1320	500	7155	9,5	112,-
YWF4D-500/390W-S	390 / 0,99	400V-3-50 Hz	1370	500	7395	9,5	106,-
YWF4D-500/500W-S	500 / 1,10	400V-3-50 Hz	1370	500	8000	10,0	126,-
YWF4D-500/800W-S	800 / 1,50	400V-3-50 Hz	1320	500	9530	18,0	159,-
YWF4E-500/900W-S	900 / 4,15	230V-1-50 Hz	1325	500	9615	18,0	166,-
YWF4D-560/780W-S	780 / 1,62	400V-3-50 Hz	1350	560	8016	21,0	165,-
YWF4D-630/800W-S	800 / 1,60	400V-3-50 Hz	1320	630	12420	15,0	165,-
YWF4D-630/1900W-S	1900 / 3,35	400V-3-50 Hz	1380	630	17520	25,0	343,-

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	51,50
YWF4E-300/85W-B	85 / 0,42	230V-1-50 Hz	1380	300	1845	3,3	57,20
YWF4E-350/126W-B	126 / 0,65	230V-1-50 Hz	1420	350	2450	4,9	72,90
YWF4E-400/180W-B	180 / 0,82	230V-1-50 Hz	1380	400	3955	5,6	78,70
YWF4E-450/250W-B	250 / 1,15	230V-1-50 Hz	1350	450	5365	7,2	88,70
YWF4E-500/380W-B	380 / 1,85	230V-1-50 Hz	1320	500	7155	9,5	112,-

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	72,90
YWF6E-450/110W-S	110 / 0,50	230V-1-50 Hz	875	450	3431	8,5	88,70
YWF6E-500/165W-S	165 / 1,15	230V-1-50 Hz	900	500	4830	10,4	112,-

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	162,-
FN035-4EK.OF.V7P3	150 / 0,65	230V-1-50 Hz	1390	350	2875	5,3	158,-
FN040-4EK.OF.V7P1	240 / 1,05	230V-1-50 Hz	1340	400	3800	6,2	215,-
FN040-VDK.OF.V7P1	230 / 0,46	400V-3-50Hz	1360	400	3850	6,6	291,-
FN045-4EK.4I.V7P1	600 / 2,9	230V-1-50 Hz	1390	450	7150	13,0	216,-
FN045-VDK.4F.V7P1	540 / 1,1	400V-3-50Hz	1350	450	7150	11,0	211,-
FN050-4EK.4I.V7P1	720 / 3,2	230V-1-50 Hz	1240	500	8950	13,0	285,-
FN050-VDK.4I.V7P1	840 / 1,45	400V-3-50 Hz	1340	500	9450	13,0	273,-
FB056-VDK.4I.V4L	840 / 1,65	400V-3-50 Hz	1360	560	9600	12,3	394,-
FN056-VDK.4M.V7P2	1050 / 2,2	400V-3-50 Hz	1280	560	11400	15,4	466,-
FB063-VDK.4M.V4L	1100 / 2,2	400V-3-50 Hz	1300	630	12500	17,8	596,-
FN063-VDK.6N.V7P6	1550 / 2,6	400V-3-50 Hz	1300	630	16000	27,0	648,-
FN071-SDQ.6F.V7P1	940 / 1,7	400V-3-50Hz	900	710	14400	32,0	865,-
FN080-SDQ.6N.V7	1800 / 3,9	400V-3-50Hz	900	800	25050	51,0	866,-

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	357,-
FN050-VDI.4I.V7P1	840 / 1,45	400V-3-50Hz	1340	500	9450	13,0	458,-
FN056-VDI.4I.V7P2	1150 / 2,1	400V-3-50 Hz	1290	560	11300	14,0	326,-
FN063-VDI.6K.V7P5	1500 / 2,7	400V-3-50Hz	1360	630	15950	24,8	524,-

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	225,-
FN045-VDW.2F.A7P2	340 / 0,64	400V-3-50 Hz	1280	450	5630	6,3	248,-
FN050-VDW.4I.A7P1	840 / 1,45	400V-3-50 Hz	1340	500	9450	13,0	321,-
FN056-VDW.4M.A7P2	1050 / 2,2	400V-3-50 Hz	1280	560	11400	15,4	621,-
FN063-VDW.6K.A7P5	1500 / 2,7	400V-3-50 Hz	1360	630	13280	24,0	672,-

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 ³ /h]	Weight [kg]	
FN045-VDD.4F.A7P1	540 / 1,10	400V-3-50 Hz	1350	450	7050	10,7	357,-
FN050-VDD.4I.A7P1	840 / 1,45	400V-3-50 Hz	1340	500	9150	13,4	524,-
FN056-VDD.4I.A7P2	1150 / 2,1	400V-3-50 Hz	1290	560	11300	14,0	326,-
FN063-VDD.6K.A7P5	1500 / 2,7	400V-3-50 Hz	1360	630	15950	25,2	524,-

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

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



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	14,30
SW-YZF-10-20	10	230V-1-50 Hz	1300	230	1,1	16,90
SW-YZF-16-25	16	230V-1-50 Hz	1300	250	1,4	18,60
SW-YZF-18-30	18	230V-1-50 Hz	1300	250	1,5	20,60
SW-YZF-25-40	25	230V-1-50 Hz	1300	300	1,8	24,30
SW-YZF-34-45	34	230V-1-50 Hz	1300	300	2,0	26,30
SW-YCF-60-50	120	230V-1-50 Hz	1300	300	2,5	38,60

WEIGUANG propellers

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

WEIGUANG fan supports

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

WEIGUANG fixing rings

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

WEIGUANG fan guards

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

LIQUID RECEIVERS

BITZER liquid receivers



Type		Volume [dm ³]	Price [EUR]						
			Standard execution			Optional equipment			
			Receiver	Sight glass	Outlet shut-off valve ¹⁾	Inlet shut-off valve	Lower fixing rails	Upper fixing rails	
Vertical	Horizontal								
FS-76		7,8	141,-	59,-	57,-	-	-	-	
FS-152		15	325,-	S	S	57,-	-	-	
	F152H	15	293,-	S	S	57,-	56,-	56,-	
	F192T	19	363,-	S	S	57,-	56,-	56,-	
	F202H	20	347,-	S	S	57,-	56,-	56,-	
FS-302		30	477,-	S	S	141,-	-	-	
	F302H	30	411,-	S	S	57,-	56,-	56,-	
	F392T	39	570,-	S	S	57,-	56,-	56,-	
FS-402		39	527,-	S	S	141,-	-	-	
	F402H	39	462,-	S	S	141,-	56,-	56,-	
	F552T	54	588,-	S	S	141,-	56,-	56,-	
FS-562		56	822,-	S	S	141,-	-	-	
	F562G	56	862,-	S	S	172,-	-	-	
FS-732		73	924,-	S	S	141,-	-	-	
FS-902		89	951,-	S	S	141,-	-	-	
	F1052T	105	988,-	S	S	141,-	56,-	56,-	
	F1602N	160	1 402,-	S	S	172,-	-	-	
FS-1602		160	1 544,-	S	S	172,-	-	-	
FS-2202		228	2 084,-	S	S	353,-	-	-	
	F2202N	228	1 918,-	S	S	353,-	-	-	
FS-3102		320	2 273,-	S	S	353,-	-	-	
	F3102N	320	2 155,-	S	S	353,-	-	-	

¹⁾ 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)	214,-
372200-04	Gasket for INT 276 LN	6,-

LIQUID RECEIVERS

TECNAC liquid receivers

TECNAC

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

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

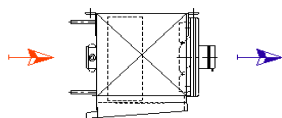


KRIWAN opto-electronic min. liquid level sensor

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

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 _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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	1 065,-
CCD 41307 E	2,7	2,0	3,3	2,4	9	1 x 300 / 90 / 1	1 581	1 248,-
CCD 32307 E	4,4	3,1	5,4	3,9	13	2 x 300 / 90 / 1	3 277	1 552,-
CCD 42307 E	5,3	4,1	6,6	4,8	17	2 x 300 / 90 / 1	3 157	1 614,-
CCD 62307 E	6,7	5,0	8,4	6,0	26	2 x 300 / 90 / 1	2 930	1 812,-
CCD 43307 E	7,9	5,8	9,8	6,9	26	3 x 300 / 90 / 1	4 736	2 234,-
CCD 42407 E	9,5	7,1	11,8	8,4	26	2 x 400 / 230 / 3	6 667	2 476,-
CCD 62407 E	12,3	9,1	15,4	11,1	39	2 x 400 / 230 / 3	6 163	2 896,-
CCD 43407 E	14,1	10,0	17,5	11,6	39	3 x 400 / 230 / 3	9 999	3 226,-
CCD 42457 E	16,7	10,0	19,3	10,8	46	2 x 450 / 540 / 3	12 753	3 744,-
CCD 63407 E	17,3	10,9	20,5	11,5	59	3 x 400 / 230 / 3	9 241	3 885,-
CCD 62457 E	22,1	14,9	27,6	16,1	70	2 x 450 / 540 / 3	12 026	4 465,-
CCD 43457 E	26,4	18,7	32,6	23,2	70	3 x 450 / 540 / 3	19 126	4 973,-
CCD 62507 E	27,8	19,8	34,7	24,8	78	2 x 500 / 840 / 3	15 359	5 334,-
CCD 63457 E	34,5	24,8	43,3	31,1	105	3 x 450 / 540 / 3	18 035	6 306,-
CCD 63507 E	41,6	29,7	52,1	37,1	117	3 x 500 / 840 / 3	23 032	7 357,-
CCD 83507 E	48,4	35,0	61,9	44,2	156	3 x 500 / 840 / 3	21 481	8 322,-
CCD 64507 E	53,5	33,9	66,5	36,6	156	4 x 500 / 840 / 3	30 707	9 590,-

AIR-COOLERS

CO₂



ROLLER air cooler DLKT with electric defrost

Type	Cooling capacity Q _o [kW] at inlet air temperature		Heat exchange surface [m ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	1 686,-



ROLLER air cooler type FHVT with electric defrost

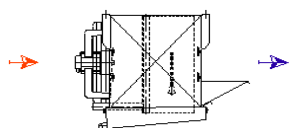
Type	Cooling capacity Q _o [kW] at inlet air temperature		Heat exchange surface [m ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /h]	Price [EUR]
	0°C (DT1=8K)	-18°C (DT1=7K)				
FHVT 712 EC COI 80 bar*	4,3	3,2	13,5	2 x 300 / 60 / 1	3 200	1 922,-
FHVT 704 EC COI 80 bar*	6,6	4,9	20,2	4 x 254 / 31 / 1	4 200	2 133,-
FHVT 713 EC COI 80 bar*	7,4	5,5	20,2	3 x 300 / 60 / 1	4 800	2 477,-

* Until stock last

NOTE: Components for CO₂ installations can be found in a separate price list

AIR-COOLERS

Goedhart®

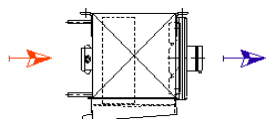


Fin spacing 7 mm; tubes Ø15 mm
Fin spacing 50 x 50 mm

GOEDHART VNS air coolers

Type	Cooling capacity Q _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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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					
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



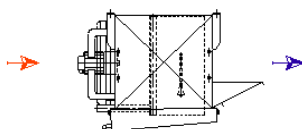
Fin spacing 6 mm; tubes Ø12 mm
Fin spacing 49,5 x 49,5 mm

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

Type	Cooling capacity Q _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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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				
ACP 84356 E	13,5	9,5	16,9	11,9	89	4 x 350 / 175 / 1	8 680	3 621,-
ACP 85356 E	16,9	11,9	21,1	14,8	112	5 x 350 / 175 / 1	10 850	4 472,-
ACP 83456 E	21,1	14,8	26,4	18,6	134	3 x 450 / 590 / 3	14 400	4 810,-
ACP 84456 E	28,6	20,1	35,7	25,1	178	4 x 450 / 590 / 3	19 200	6 041,-

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

AIR-COOLERS

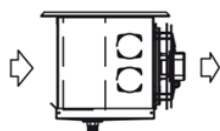


Fin spacing 6 mm; tubes \varnothing 12 mm
 Fin spacing 49,5 x 49,5 mm

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

Type	Cooling capacity Q_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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	3 694,-
ACPB 85356E	16,9	11,9	21,1	14,8	112	5 x 350 / 175 / 1	10 850	4 562,-
ACPB 86356E	20,2	14,2	25,3	17,8	135	6 x 350 / 175 / 1	13 020	5 293,-
ACPB 83456E	21,1	14,8	26,4	18,6	134	3 x 450 / 590 / 3	14 400	4 906,-
ACPB 84456E	28,6	20,1	35,7	25,1	178	4 x 450 / 590 / 3	19 200	6 161,-
ACPB 85456E	35,8	25,1	44,7	31,4	222	5 x 450 / 590 / 3	24 000	7 353,-

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

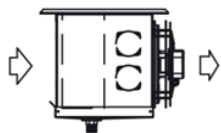


Fin spacing 6 mm

ARKTON OMEGA ACC 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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	572,-
ACC-51306E	2,1	1,7	2,5	2,1	10,0	1 x 300 / 85 / 1	1 331	641,-
ACC-32306E	3,1	2,4	3,8	2,9	12,0	2 x 300 / 85 / 1	2 875	813,-
ACC-42306E	4,0	3,1	4,8	3,7	16,0	2 x 300 / 85 / 1	2 762	870,-
ACC-52306E	4,7	3,6	5,6	4,3	20,0	2 x 300 / 85 / 1	2 656	924,-
ACC-43306E	6,2	4,7	7,4	5,7	24,0	3 x 300 / 85 / 1	4 139	1 138,-
ACC-53306E	7,2	5,5	8,6	6,6	30,0	3 x 300 / 85 / 1	3 984	1 225,-

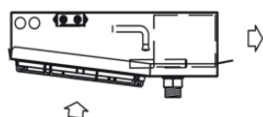
AIR-COOLERS



Fin spacing 8 mm

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

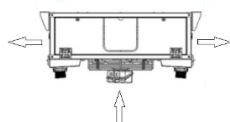
Type	Cooling capacity Q _o [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q _o [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /h]	Price [EUR]
	0°C (DT1=8K)	-18°C (DT1=7K)	0°C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



Fin spacing 7 mm

ARKTON OMEGA ACS air coolers with electric defrost

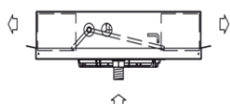
Type	Cooling capacity Q _o [kW] for R404A/R507 at air inlet temperature		Cooling capacity Q _o [kW] for R449A/R448A at air inlet temperature		Heat exchange surface [m ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /h]	Price [EUR]
	t _{l1} = +5°C (DT1=10K)	t _{l1}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



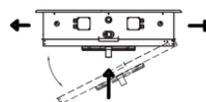
Fin spacing 6 mm

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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	1 132,-
TEC D035.A12-D6-60-S1N	12,3	9,4	14,8	11,5	30	2 x 350 /165/1	4564	1 404,-
TEC D035.A13-D4-60-S1N	14,5	11,2	17,5	13,6	30	3 x 350 /165/1	7539	1 564,-
TEC D035.A13-D6-60-S1N	18,2	14,0	22,0	17,0	44	3 x 350 /165/1	6846	1 867,-
TEC D035.A14-D6-60-S1N	24,7	19,0	29,9	23,2	59	4 x 350 /165/1	9127	2 351,-
TEC D045.A13-J6-60-S3D	30,1	23,2	36,5	28,3	86	3 x 450/340/3	13960	3 006,-



ACD-x4236E

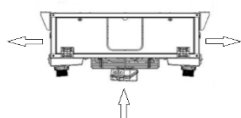


ACD-42356E - 64356E
Fin spacing 6 mm

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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	932,-
ACD-62356E	12,2	8,9	14,1	10,6	39	2 x 350 / 134 / 1	4336	1 745,-

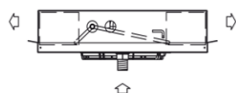
AIR-COOLERS



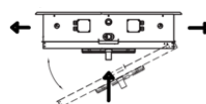
Fin spacing 4 mm

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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	1 039,-
TEC D035.A12-D6-40-S1N	13,9	10,7	16,8	13,0	44	2 x 350 /165/1	4310	1 249,-
TEC D035.A13-D4-40-S1N	16,8	12,9	20,3	15,7	44	3 x 350 /165/1	7215	1 448,-
TEC D035.A13-D6-40-S1N	20,9	16,1	25,3	19,6	66	3 x 350 /165/1	6465	1 752,-
TEC D035.A14-D6-40-S1N	28,0	21,4	33,8	26,2	89	4 x 350 /165/1	8620	2 262,-



ACD-x4234 - 5234

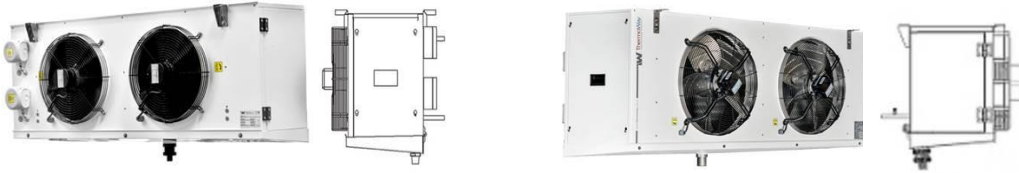


ACD-42354 - 64354
Fin spacing 4 mm

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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	625,-
ACD-x4234	6,6	4,8	7,5	5,6	18	4 x 230 / 36 / 1	1487	760,-
ACD-x5234	8,4	6,1	9,5	7,0	22	5 x 230 / 36 / 1	1859	895,-
ACD-42354	11,3	8,1	13,2	9,9	39	2 x 350 / 134 / 1	4471	1 378,-
ACD-62354	14,7	10,6	16,9	12,5	58	2 x 350 / 134 / 1	4247	1 571,-
ACD-43354	17,0	12,5	20,0	15,1	58	3 x 350 / 134 / 1	6706	1 820,-
ACD-63354	22,2	16,2	25,6	19,2	87	3 x 350 / 134 / 1	6375	2 094,-
ACD-64354	30,0	21,7	34,4	25,7	116	4 x 350 / 134 / 1	8500	2 605,-

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 ²]	Number of fans x D [mm]/ power consumption [W/pc.]/ power supply [f]	Air volume [m ³ /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	1 800,-
TEC C045.A12-J6-10-S3D	8,25	10,23	30,3	2 x 450 / 289 / 3	9607	1 935,-
TEC C045.A12-J8-10-S3D	9,83	12,19	40,4	2 x 450 / 289 / 3	9119	2 139,-
TEC C050.A12-J8-10-S3D	14,88	18,45	55,3	2 x 500 / 644 / 3	14337	2 954,-
TEC C050.A13-J6-10-S3D	18,60	23,06	63,9	3 x 500 / 644 / 3	22780	3 760,-
TEC C050.A13-J8-10-S3D	22,68	28,12	85,1	3 x 500 / 644 / 3	21694	4 286,-
TEC C050.A14-J8-10-S3D	30,40	37,70	113,5	4 x 500 / 644 / 3	28925	5 586,-

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 _o [kW]	ΔP _w [kPa]	Q _o [kW]	ΔP _w [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 _o [kW]	ΔP _w [kPa]	Q _o [kW]	ΔP _w [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 m ² K/W		Condenser R404A: tK = +40°C, ΔtD = 3K water: tw = +30°C/+35°C * Fouling factor = 0,000043 m ² K/W		Connections		Distributor EV	Price [EUR]
	Q _o [kW]	ΔP _w [kPa]	Q _o [kW]	ΔP _w [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)	-	257,-
P7 – 10 SF	-	-	10,6	47	35,2	1"1/4 (g)	-	257,-
P7 – 14 EVF	7,2	15	-	-	22,2 / 35,2	1"1/4 (g)	-	284,-
P7 – 14 SF	-	-	14,6	47	35,2	1"1/4 (g)	-	284,-
P7 – 20 EVF	10,7	17	-	-	22,2 / 35,2	1"1/4 (g)	-	325,-
P7 – 20 SF	-	-	22,1	52	35,2	1"1/4 (g)	-	325,-
P7 – 24 EVF	13	17	-	-	22,2 / 35,2	1"1/4 (g)	-	352,-
P7 – 24 SF	-	-	24,5	45	35,2	1"1/4 (g)	-	352,-
P7 – 30 EVF	16,6	18	-	-	22,2 / 35,2	1"1/4 (g)	-	394,-
P7 – 30 SF	-	-	29,6	43	35,2	1"1/4 (g)	-	394,-
P7 – 40 EVF	22	18	-	-	22,2 / 35,2	1"1/4 (g)	-	463,-
P7 – 40 SF	-	-	38,6	44	35,2	1"1/4 (g)	-	463,-
P7 – 50 EVF	27,4	19	-	-	22,2 / 35,2	1"1/4 (g)	-	533,-
P7 – 50 SF	-	-	48,3	47	35,2	1"1/4 (g)	-	533,-
P15 – 30 SF	-	-	65,7	50	54,2	2" (g)	-	903,-
P15 – 30 EVF	28,1	12	-	-	22,2 / 54,2	2" (g)	-	903,-
P15 – 40 SF	-	-	82,3	46	54,2	2" (g)	-	1 043,-
P15 – 40 EVF	36,8	12	-	-	22,2 / 54,2	2" (g)	-	1 043,-
P15 – 50 SF	-	-	97,2	43	54,2	2" (g)	-	1 185,-
P15 – 50 EVF	45,7	12	-	-	22,2 / 54,2	2" (g)	+	1 270,-
P15 – 60 EVF	54,6	12	-	-	22,2 / 54,2	2" (g)	+	1 412,-
P30 – 40EVF	72,4	9	-	-	35,2 / 76,2	2"1/2 (g)	-	2 322,-
P30 – 50 EVF	89,4	9	-	-	35,2 / 76,2	2"1/2 (g)	+	2 759,-
P30 – 60 EVF	106,5	10	-	-	35,2 / 76,2	2"1/2 (g)	+	3 084,-

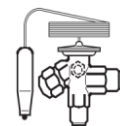
Sample code: TK-P15-40EVF-M

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 m ² K/W		Water flow		Connections		Price [EUR]
	Q _o [kW]	[m ³ /h]	ΔP _w [kPa]	Refrigerant side D [mm] in/out	Water side		
SCE 73 single circuit	62	10,6	40	22,5 / 42,4	2 1/2"	2 474,-	
SCE 103 single circuit	86	14,8	44	22,5 / 42,4	2 1/2"	2 718,-	
SCE 143 single circuit	120	20,6	35	35,3 / 54,4	3"	3 285,-	
DCE 163 double circuit	137	23,5	36	2x22,5/42,4	3"	3 501,-	
DCE 243 double circuit	205	35,2	35	2x35,3/54,4	114,3 mm	4 645,-	

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

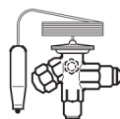
Code	Description	Price [EUR]
2271/2S*	Brazed connection 1/4" (6 mm)	13,50
2271/M10S*	Brazed connection (10 mm)	14,20

* 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

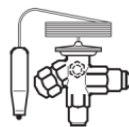
Code	Description				Price [EUR]
	Type	Refrigerant	Range	Connection type	
068Z3403	TES 2	R404A/R507	N -40°C ÷ +10°C	screw	80,20
068Z3400	TS 2	R404A / R507	N -40°C ÷ +10°C		49,70
068Z3409*	TES 2 MOP	R404A / R507	NL -40°C ÷ -15°C		80,20
068Z3411*	TES 2 MOP	R404A/R507	B -60°C ÷ -25°C		78,70
068Z3501	TEZ 2	R407C	N -40°C ÷ +10°C		78,90
068Z3714*	TE 2	R407F/R407A	N -40°C ÷ +10°C		80,20
068Z3728	TE 2	R449A/R448A	N -40°C ÷ +10°C		80,20
068Z3346	TN 2	R134a	N -40°C ÷ +10°C		49,70
068Z3348	TEN 2	R134a	N -40°C ÷ +10°C		80,20
068Z3422	TES 2	R404A/R507	N -40°C ÷ +10°C		79,-
068Z3435	TS 2	R404A / R507	N -40°C ÷ +10°C		50,20
068Z3713*	TE 2	R407F/R407A	N -40°C ÷ +10°C		79,-
068Z3809	TE 2	R452A	N -40°C ÷ +10°C		80,20
068Z3730	TE 2	R448A/R449A	N -40°C ÷ +10°C		79,-
068Z3386	TEN 2	R134a	N -40°C ÷ +10°C		79,-
068-2002	Orifice Nr 0X for TE 2/T2				18,50
068-2003	Orifice Nr 0 for TE 2/T2				18,50
068-2010	Orifice Nr 1 for TE 2/T2				18,50
068-2015	Orifice Nr 2 for TE 2/T2				18,50
068-2006	Orifice Nr 3 for TE 2/T2				18,50
068-2007	Orifice Nr 4 for TE 2/T2				19,10
068-2008	Orifice Nr 5 for TE 2/T2				19,10
068-2009	Orifice Nr 6 for TE 2/T2				19,10

* Until stock last

DANFOSS thermostatic expansion valves TE 5

Code	Description			Price [EUR]
	Type	Refrigerant	Range	
067B3342	TES 5	R404A/R507	N -40°C ÷ +10°C	126,-
067B3358	TES 5 with MOP -10°C	R404A/R507	NL -40°C ÷ -15°C	126,-
067B3278	TEZ 5	R407C	N -40°C ÷ +10°C	126,-
067B3501*	TE 5	R407F/R407A	N -40°C ÷ +10°C	126,-
067B3252	TE 5	R448A/R449A	N -40°C ÷ +10°C	136,-
067B3297	TEN 5	R134a	N -40°C ÷ +10°C	126,-
067B4002	Valve body TE 5, for brazing, straight: 12x16 mm			47,70
067B4003	Valve body TE 5, for brazing, straight: 12x22 mm			47,70
067B4004	Valve body TE 5, for brazing, angle: 12x16 mm			47,70
067B4035	Valve body TE 5, for brazing, straight: 16x22 mm			47,70
067B4012	Valve body TE 5, for brazing, angle: 16x22 mm			47,70
067B4036	Valve body TE 5, for brazing, straight: 22x28 mm			47,70

EXPANSION VALVES



DANFOSS thermostatic expansion valves TE 5 – continued

Code	Description	Price [EUR]
067B2788	Orifice Nr 0.5 for TE 5 (8,7 kW) ¹⁾	49,50
067B2789	Orifice Nr 1 for TE 5 (14,6 kW) ¹⁾	49,50
067B2790	Orifice Nr 2 for TE 5 (20,1 kW) ¹⁾	49,50
067B2791	Orifice Nr 3 for TE 5 (26,3 kW) ¹⁾	49,50
067B2792	Orifice Nr 4 for TE 5 (34,6 kW) ¹⁾	54,10

¹⁾ Nominal capacity for R404A

* Until stock last

DANFOSS thermostatic expansion valves TE 12/20

Code	Description			Price [EUR]
	Type	Refrigerant	Range	
067B3347	TES 12	R404A/R507	N -40°C ÷ +10°C	137,-
067B3348*	TES 12 with MOP -10°C	R404A/R507	NL -40°C ÷ -15°C	137,-
067B3366	TEZ 12	R407C	N -40°C ÷ +10°C	137,-
067B3532*	TE 12	R407F/R407A	N -40°C ÷ +10°C	137,-
067B2512	TE 12	R448A/R449A	N -40°C ÷ +10°C	131,-
067B4018	Valve body TE 12, for brazing, straight: 16x22 mm			51,70
067B4017	Valve body TE 12/20, for brazing, angle: 22x28 mm			51,70
067B4016	Valve body TE 12/22, for brazing, straight: 22x28 mm			51,70
067B3352	TES 20	R404A	N -40°C ÷ +10°C	382,-
067B3294	TE 20	R448A;R449A	N -40°C ÷ +10°C	366,-
067B2708	Orifice Nr 5 for TE 12 (50,6 kW) ¹⁾			72,60
067B2709	Orifice Nr 6 for TE 12 (61,0 kW) ¹⁾			72,60
067B2710	Orifice Nr 7 for TE 12 (70,6 kW) ¹⁾			72,60
067B2771	Orifice Nr 8 for TE 20 (77,6 kW) ¹⁾			115,-
067B2773	Orifice Nr 9 for TE 20 (84,5 kW) ¹⁾			115,-

¹⁾ Nominal capacity for R404A

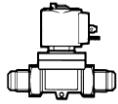
* Until stock last

ALCO thermostatic expansion valves

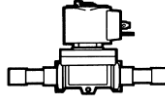


Code	Description			Price [EUR]
	Type	Refrigerant	Range	
XC726BW-2B	Thermostatic element	R448A/R449A	-45°C ÷ +30°C	242,-
XC726SW-2B	Thermostatic element	R404A/R507	-45°C ÷ +30°C	242,-
XC726NW-2B	Thermostatic element	R407C	-45°C ÷ +30°C	242,-
XC726SW-55-2B	Thermostatic element with MOP -10°C	R404A/R507	-45°C ÷ -10°C	242,-
9153	Valve body for XC726...2B, for brazing, angle: 22x22 mm			70,50
X9117-B6B	Orifice Nr 6 for XC726...2B			181,-
X9117-B7B	Orifice Nr 7 for XC726...2B			181,-
X9117-B8B	Orifice Nr 8 for XC726...2B			181,-
X9117-B9B	Orifice Nr 9 for XC726...2B			181,-
X9166-B10B	Orifice Nr 10 for XC726...2B			253,-

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 _{ZN} [kW]	Kv [m ³ /h]	Price [EUR]
EV32MMA6	GMC	1/4"	screwed	NC	3,5	0,26	27,40
EV33MMA6		3/8"		NC	3,5	0,26	29,90
EV63MMA6		3/8"		NC	12,5	1,0	37,70
EV104MMA6		1/2"		NC	29,5	2,2	50,10
EV125MMA6		5/8"		NC	33,5	2,5	54,90
1020/2A6	CASTEL	1/4"		NC	2,3	0,175	27,60
1020/3A6		3/8"		NC	3,1	0,23	29,90
1064/3A6		3/8"		NC	10,7	0,8	39,60
1064/4A6		1/2"		NC	10,7	0,8	39,70
1070/4A6		1/2"		NC	29,5	2,2	52,80
1070/5A6		5/8"	NC	35,0	2,61	57,70	
1090/6A6		3/4"	NC	64,2	4,8	90,60	
EV32SA6	GMC	1/4" (6,4 mm)	brazed	NC	3,5	0,26	30,10
EV33SA6		3/8" (9,8 mm)		NC	3,5	0,26	31,10
EV103SA6*		3/8" (9,8 mm)		NC	22,1	1,65	38,70
EV3M10SA6		10 mm		NC	3,5	0,26	31,10
EV10M10SA6*		10 mm		NC	22,1	1,65	38,70
EV64SA6		1/2" (12,7 mm)		NC	12,5	1,0	42,50
EV6M12SA6		12 mm		NC	12,5	1,0	42,50
EV104SA6		1/2" (12,7 mm)		NC	29,5	2,2	54,50
EV10M12SA6		12 mm		NC	29,5	2,2	54,50
EV125SA6		5/8" (16,0 mm)		NC	33,5	2,5	62,60
EV226SA6		3/4" (19,3 mm)		NC	80,3	6,0	90,30
EV127SA6		7/8" (22,4 mm)		NC	33,5	2,5	69,40
EV227SA6		7/8" (22,4 mm)		NC	80,3	6,0	93,20
EV229SA6		1 1/8" (28,7 mm)		NC	80,3	6,0	115,-
1028/2A6.E		CASTEL		1/4" (6,4 mm)	NC	2,0	0,23
1028/3A6	3/8" (9,8 mm)		NC	3,1	0,23	32,50	
1068/3A6	3/8" (9,8 mm)		NC	10,7	0,8	42,60	
1028/M10A6	10 mm		NC	3,1	0,23	32,50	
1068/M10A6	10 mm		NC	10,7	0,8	42,60	
1068/4A6	1/2" (12,7 mm)		NC	10,7	0,8	44,70	
1078/4A6	1/2" (12,7 mm)		NC	29,5	2,2	57,60	
1068/M12A6	12 mm		NC	10,7	0,8	44,70	
1078/M12A6	12 mm		NC	29,5	2,2	57,60	
1078/5A6	5/8" (16,0 mm)		NC	35,0	2,61	69,30	
1098/6A6	3/4" (19,3 mm)		NC	64,2	4,8	99,80	
1079/7A6	7/8" (22,4 mm)		NC	35,0	2,61	77,-	
1098/7A6	7/8" (22,4 mm)		NC	76,3	5,7	104,-	

* Until stock last

SOLENOID VALVES

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

Code		Description/El. Connector		Type	Q _{ZN} [kW]	Kv [m ³ /h]	Price [EUR]	
1098/9A6	CASTEL	1 1/8"	(28,7 mm)	brazed	NC	133,9	10	264,-
1099/9A6		1 1/8"	(28,7 mm)		NC	76,3	5,7	128,-
1078/11A6		1 3/8"	(35,2 mm)		NC	214,2	16	258,-
1079/11A6		1 3/8"	(35,2 mm)		NC	133,9	10	274,-
1099/11A6		1 3/8"	(35,2 mm)		NC	133,9	10	222,-
1079/M42A6		42 mm	NC		214,2	16	349,-	



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

Code		Description/El. Connector		Type	Q _{ZN} [kW]	Kv [m ³ /h]	Price [EUR]		
1020/2S	CASTEL	1/4"		screwed	NC	2,3	0,18	17,60	
1020/3S		3/8"			NC	3,1	0,23	19,90	
1064/3S		3/8"			NC	10,7	0,8	29,70	
1064/4S		1/2"			NC	10,7	0,8	29,70	
1070/5S		5/8"			NC	35,0	2,61	47,70	
1028/2SE	CASTEL	1/4"	(6,4 mm)	brazed	NC	3,1	0,23	21,60	
1028/3S		3/8"	(9,8 mm)		NC	3,1	0,23	21,40	
1028/M10S		10 mm			NC	3,1	0,23	22,50	
1068/3S		3/8"	(9,8 mm)		NC	10,7	0,8	32,60	
1068/M10S		10 mm			NC	10,7	0,8	32,60	
1068/4S		1/2"	(12,7 mm)		NC	10,7	0,8	34,70	
1068/M12S		12 mm			NC	10,7	0,8	34,70	
1078/M12S		12 mm			NC	29,5	2,2	47,60	
1078/5S		5/8"	(16,0 mm)		NC	35,0	2,61	59,20	
1098/6S		3/4"	(19,3 mm)		NC	64,2	4,8	89,80	
1079/7S		7/8"	(22,4 mm)		NC	35,0	2,61	67,-	
1098/7S		7/8"	(22,4 mm)		NC	76,3	5,7	93,20	
1099/9S		1 1/8"	(28,7 mm)		NC	76,3	5,7	118,-	
1079/11S		1 3/8"	(35,2 mm)		NC	133,9	10	264,-	
1078/M42S		42 mm			NC	334,6	25	477,-	
1158/7S		7/8"	(22,4 mm)		NO	76,3	5,7	257,-	
1198/9S		1 1/8"	(28,7 mm)		NO	133,9	10	282,-	
1178/11S		1 3/8"	(35,2 mm)		NO	214,3	16	328,-	
032F1208		DANFOSS	10 mm		EVR-3	NC	3,68	0,26	46,50
032L7110			3/8" (9,8 mm)		EVR-4	NC	9,26	0,7	74,20
032L1236	12 mm		EVR-6	NC	12,12	1	74,20		
032L1214	16 mm		EVR-10	NC	25,47	2,2	91,30		
032L1225	22 mm		EVR-15	NC	39,23	3,3	154,-		
032L1245	28 mm		EVR-20	NC	81,46	6	216,-		

NO valves work only with HM3 coils

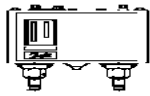
SOLENOID VALVES



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	10,80
KMA2		Coil 9 Watt	24 V AC 50-60 Hz	IP 65	10,80
KMD2		Coil 20 Watt	12 V DC (direct current)	IP 65	24,-
KMD4		Coil 20 Watt	24 V DC (direct current)	IP 65	24,-
JB9/11		El. connector for coils GMC		IP 65	1,60
HF2/9300/RA6	CASTEL	Coil 8 Watt	230 V AC 50-60 Hz	IP 65	10,-
HF2/9300/RA2		Coil 8 Watt	24 V AC 50-60 Hz	IP 65	10,-
HM3/9120/RD1		Coil 20 Watt	12 V DC (direct current)	IP 65	24,70
HF3/9320/RD2		Coil 20 Watt	24 V DC (direct current)	IP 65	23,50
HM3/9120/RD6		Coil 18 Watt	220 V AC 50-60 Hz	IP 65	27,10
HM4/9160/RA6		Coil 8 Watt (heavy duty)	230 V AC 50-60 Hz	IP 68	18,-
CM2/9110/RA6		Coil 8 Watt with 10 m cable	230 V AC 50-60 Hz	IP 65	18,60
18/PG11		El. connector 9150/R02 for coils Castel: HF2/9300/RA6, HF2/9300/RA2, HM3/9120/RD1, HF3/9320/RD2		IP 65	1,70
9150/R45		El. connector 9150/R45 for coils Castel: HM3/9120/RD6		IP 65	8,40
9155/R01		El. connector for coils Castel: HM4/9160/RA6		IP 68	2,30
004257		O-ring for 1070-1078/4-5(M12), 1079/7			0,90
018F6701	DANFOSS	Coil 12 Watt with connect.	230 V AC 50 Hz	IP 67	39,80
018F6732		Coil 14/17 Watt with connect.	230 V AC 50/60 Hz	IP 67	39,80
018F0091		Permanent magnet for solenoid valves			47,10

PRESSURE SWITCHES



PRESSURE SWITCHES (Alco, Danfoss, Ranco)

Code		Description	Price [EUR]
PS1-A3A	ALCO	single LP-aut.	45,10
PS1-A5A		single HP-aut.	45,10
PS1-W5A		single HP-aut. (with double bellow)	63,20
PS1-R5A		single HP-manual	54,20
PS1-B5A		single HP-manual (with double bellow)	67,-
PS2-L7A		double LP-aut. HP-manual	73,-
PS2-C7A		double LP-aut. HP-manual (with double bellow)	96,20
PS2-A7A		double LP-aut. HP-aut. (with double bellow)	65,40
PS2-R7A		double LP-manual HP-manual	77,70
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
O17-H4758		double LP-aut. HP-aut. (with double bellow)	64,20
060-110166	DANFOSS	single LP-aut. - KP-1	56,10
060-117166		single HP-aut. - KP-5	56,10
060-117466		single HP-aut. - KPR-5 (stainless steel bellow)	62,70
060-119166		single HP-manual - KP-7B (with double bellow)	80,60
060-124366		double LP-aut. HP-manual - KP-15	120,-
060-539766		double LP-aut. HP-manual - KP17WB (with double bellow)	98,90
061F7518	DANFOSS CARTRIDGE PRESSURE SWITCH	LP-aut. (0,5-1,5 bar) brazed \varnothing 6 - ACB-2UA518W	28,90
061F7520		single LP-aut. (0,5-1,5 bar) screw 1/4" fm SAE - ACB-2UA520W	28,90
061F7526		single LP-aut. (1,7 - 2,7 bar) screw 1/4" fm SAE - ACB-2UA526W	28,90
061F9703		single HP-manual (20-26 bar) brazed \varnothing 6 - ACB-2UB803MW	33,30
061F9713		single HP-manual (20-26 bar) screw 1/4" fm SAE - ACB-2UB813MW	33,30
061F7507		single HP-aut. (20-26 bar) brazed \varnothing 6 - ACB-2UB507W	28,90
061F7509		single HP-aut. (20-26 bar) screw 1/4" fm SAE - ACB-2UB509W	28,90
061F8333		single HP-aut. (13-16 bar) screw 1/4" fm SAE - AACB-2UA305W	28,90
061F8334		single HP-aut. (13-16 bar) brazed \varnothing 6 - ACB-2UA306W	28,90
060-105666			Universal Danfoss pressure switch holder

FILTER DRIERS (GMC, Castel, Danfoss)

Code		Description/El. Connector		Size	Price [EUR]
SC032MM	GMC	1/4"	screwed	032	7,20
SC052MM		1/4"		052	8,-
SC053MM		3/8"		053	8,-
SC083MM		3/8"		083	10,60
SC163MM		3/8"		163	13,10
SC084MM		1/2"		084	11,-
SC164MM		1/2"		164	13,10
SC304MM		1/2"		304	23,90
SC165MM		5/8"		165	13,30
SC305MM		5/8"		305	23,90
SC415MM		5/8"		415	33,20
SC416MM		3/4"		416	33,50
DF303/2		CASTEL		1/4"	screwed
DF305/2	1/4"		052	7,90	
DF305/3	3/8"		053	7,90	
4308/3*	3/8"		083	10,70	
DF308/3	3/8"		083	11,-	
DF316/3	3/8"		163	13,30	
DF308/4	1/2"		084	11,-	
DF316/4	1/2"		164	13,30	
DF330/4	1/2"		304	24,-	
DF316/5	5/8"		165	13,30	
DF330/5	5/8"		305	24,-	
DF341/5	5/8"		415	34,20	
4341/6*	3/4"		416	40,40	
DF341/6	3/4"		416	35,10	
023Z5008	DANFOSS		3/8"	DCL-163	
023Z500991		1/2"	DCL-164	164	25,50
023Z0013		1/2"	DCL-304	304	42,60
023Z5010		5/8"	DCL-165	165	25,50
023Z0014		5/8"	DCL-305	305	42,60
SC032S	GMC	1/4"	(6,4 mm)	032S	7,20
SC052S		1/4"	(6,4 mm)	052S	8,-
SC053S		3/8"	(9,8 mm)	053S	8,-
SC083S		3/8"	(9,8 mm)	083S	10,60

FILTERS

FILTER DRIERS (GMC, Castel, Danfoss) – continued

Code		Description/El. Connector		Size	Price [EUR]	
SC163S	GMC	3/8"	(9,8 mm)	163S	13,10	
SC163M10S			10 mm	163S	13,10	
SC164M12S			12 mm	164S	13,10	
SC164S		1/2"	(12,7 mm)	164S	13,10	
SC304S		1/2"	(12,7 mm)	304S	23,90	
SC165S		5/8"	(16,0 mm)	165S	13,30	
SC305S		5/8"	(16,0 mm)	305S	23,90	
SC415S		5/8"	(16,0 mm)	415S	33,20	
SC416S		3/4"	(19,3 mm)	416S	33,50	
SC417S		7/8"	(22,4 mm)	417S	33,50	
SC757S		7/8"	(22,4 mm)	757S	62,80	
DF303/2S		CASTEL	1/4"	(6,4 mm)	032S	7,20
DF305/2S			1/4"	(6,4 mm)	052S	7,90
DF305/3S	3/8"		(9,8 mm)	053S	7,90	
DF308/3S	3/8"		(9,8 mm)	083S	11,-	
DF316/3S	3/8"		(9,8 mm)	163S	13,30	
DF316/M10S			10 mm	163S	13,30	
DF316/M12S			12 mm	164S	13,30	
DF316/4S	1/2"		(12,7 mm)	164S	13,30	
DF330/4S	1/2"		(12,7 mm)	304S	24,-	
DF316/5S	5/8"		(16,0 mm)	165S	13,30	
DF330/5S	5/8"		(16,0 mm)	305S	24,-	
DF341/5S	5/8"		(16,0 mm)	415S	34,20	
DF341/6S	3/4"		(19,3 mm)	416S	35,10	
DF341/7S	7/8"		(22,4 mm)	417S	36,10	
DF375/7S	7/8"		(22,4 mm)	757S	92,40	
DF375/9S	1 1/8"		(28,7 mm)	759S	92,40	
023Z4545*	D		7/8" (22,4 mm)	DCL-607 S	607S	94,70

* 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	19,50
DB308/4S	1/2"	(12,7 mm)		084S	20,80
DB316/5S	5/8"	(16,0 mm)		165S	27,70



Suction line burn-out filters (Danfoss)

Code	Description/El. Connector		Model	Price [EUR]	
023Z1001	3/8"		screwed	DAS 083 VV	60,40
023Z1002	1/2"			DAS 084 VV	60,40
023Z1007	1/2"			DAS 164 VV	69,50
023Z1008	5/8"			DAS 165 VV	69,50
023Z1011	3/4"	(19,3 mm)	brazed	DAS 166 sVV	69,50
023Z1015	7/8"	(22,4 mm)		DAS 307 sVV	76,80
023Z1018	1 1/8"	(28,7 mm)		DAS 419 sVV	93,80



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

Code		Description/El. Connector		Price [EUR]		
S053MM	GMC	3/8"		screwed	13,20	
S164MM		1/2"			22,80	
4510/3	CAST.	3/8"			16,80	
4510/4		1/2"			25,80	
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)	brazed	14,50	
4520/M10		10 mm	14,50			
4520/M12		12 mm	14,90			
4520/4		1/2"	(12,7 mm)		14,90	
4520/5		5/8"	(16,0 mm)		16,30	
4520/M18		18 mm	24,70			
FACY-287S/MMS	CARLY	7/8"	(22,4 mm)	84,90		
FACY-289S		1 1/8"	(28,7 mm)	88,60		
FACY-489MMS		1 1/8"	(28,7 mm)	111,-		
FACY-4811S/MMS		1 3/8"	(35,2 mm)	119,-		
FACY-4813MMS		1 5/8"	(41,25 mm)	134,-		

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	chem.(mech.)	1 szt. x H48	94,40	
CSR487		7/8"	(22,4 mm)			1 szt. x H48	96,10	
CSR489		1 1/8"	(28,7 mm)			1 szt. x H48	99,80	
CSR4811		1 3/8"	(35,2 mm)			1 szt. x H48	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)			1 szt. x H48	strainer	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
4411/7A	7/8"		(22,4 mm)	1 szt. x H48	104,-			
4411/9A	1 1/8"		(28,7 mm)	1 szt. x H48	107,-			
4412/9A	1 1/8"		(28,7 mm)	2 szt. x H48	141,-			
4411/11A	1 3/8"		(35,2 mm)	1 szt. x H48	124,-			
4412/11A	1 3/8"		(35,2 mm)	2 szt. x H48	143,-			
4411/M42A	42 mm		1 szt. x H48	128,-				
4413/M42A	42 mm		3 szt. x H48	153,-				
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	206,-			
4423/21A	2 5/8"		64,4/76,1 - nipple	3 szt. x H100	561,-			
4423/25A	3 1/8"		80/88,9 - nipple	3 szt. x H100	575,-			
4411/17C	2 1/8"		54/60,3 - nipple	1 szt. x H48	strainer	125,-		
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		386,-		
4421/25C	3 1/8"		80/88,9 - nipple	1 szt. x H100		397,-		
4421/34C	4 1/8"		105/114,3 - nipple	1 szt. X H100		413,-		
0007677		Strainer for filters 44..				12,10		

Note: filters with service valve

FILTERS



FILTER CORES (GMC, Castel, Danfoss)

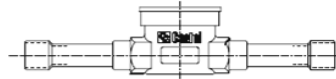
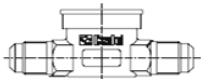
Code		Description	Price [EUR]
CSR48	GMC	H48, dehydrating	10,20
CSR48A		H48, dehydrating, deacidificating	11,-
CSR48AA		H48, dehydrating, deacidificating, activated carbon	19,90
MFC48		H48, strainer	21,60
CSR100		H100, dehydrating	29,-
CSR100A		H100, dehydrating, deacidificating	30,10
MFC100G		H100, strainer	32,30
4490/A	CASTEL	H48, dehydrating	10,90
4490/AA		H48, dehydrating, deacidificating	11,90
4490/BA		H48, deacidificating (burn out)	12,60
4495/C		H48, strainer	22,70
4491/A		H100, dehydrating	30,80
4491/AA		H100, dehydrating, deacidificating	32,60
4496/C		H100, strainer	36,10
023U5380*	DAN.	48 DA, deacidificating (burn out)	40,70
023U4381		48 DC, dehydrating, deacidificating	27,50

* 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,-
9150/R58		Cover (4496/C)	14,40

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"		11,20
3910/33		3/8"		12,10
3910/44		1/2"		14,50
3910/55		5/8"		16,-

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"		12,30
3950/44		1/2"		14,80
3950/55		5/8"		20,60
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)
3940/3	3/8"		(9,8 mm)	16,70
3940/M10			10 mm	16,70
3940/4	1/2"		(12,7 mm)	17,40
3940/M12			12 mm	17,40
3940/5	5/8"		(16,0 mm)	19,20
3940/M18			18 mm	23,10
3940/7	7/8"		(22,4 mm)	29,-
3940/9	1 1/8"		(28,7 mm)	36,60
3771/11	1 3/8"		(35,2 mm)	35,90
3771/M42			42 mm	42,30
3771/17	2 1/8"	(54,4 mm)	57,90	
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 ³]	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 ³]	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	134,-	
5540/5	5/8"	(16,0 mm)		140,-	
5540/7	7/8"	(22,4 mm)		146,-	
6009-MMS		28 mm		TURBOIL	272,-
5540/9	1 1/8"	(28,7 mm)			168,-
5540/11	1 3/8"	(35,2 mm)			183,-
7011-S/MMS	1 3/8"	(35,2 mm)		TURBOIL	294,-
5540/13	1 5/8"	(41,25 mm)			306,-
8013-MMS	1 5/8"	(41,25 mm)		TURBOIL	298,-
5540/M42		42 mm			306,-
5540/17	2 1/8"	(54,4 mm)			326,-
9017-S/MMS	2 1/8"	(54,4 mm)		TURBOIL	386,-
F-15017-S/MMS	2 1/8"	(54,4 mm)		TURBOIL	957,-
F-15021-MMS		67 mm	TURBOIL	1 253,-	
F-30025S	3 1/8"	(79,38 mm)	TURBOIL	1 259,-	

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)	265,-
INT280-1	Adapter for Kriwan electronic oil regulator for Bitzer compressors 2KC.. - 4CC..; 2KES.. - 4CES..	28,-
LEVOIL-23	Oil level regulator (0,8 l) for Bitzer compressors 4VC..- 6F, 4VES-6FE	174,-
LEVOIL-23-BO	Oil level regulator with adapter (0,8 l) for Bitzer compressors 2KC.. - 4CC, 2KES-4CES	249,-
CY-15552190	O-ring for LEVOIL 23	8,50
RHA4-B	Oil receiver TECNAC 4 l with shut-off valves	157,-
RHA6-B	Oil receiver TECNAC 6 l with shut-off valves	176,-
RHA8-B	Oil receiver TECNAC 8 l with shut-off valves	192,-
RHA12-B	Oil receiver TECNAC 12 l with shut-off valves	208,-
RHA16-B-219	Oil receiver TECNAC 16 l with shut-off valves	272,-
RHA20-B	Oil receiver TECNAC 20 l with shut-off valves	361,-
6110/X12	Angle shut-off valve for regulator 3/8"- brazed	13,70
6110/X13	Angle shut-off valve for regulator 3/8"- screwed	13,60
6110/X15	Angle shut-off valve for regulator 1/4"f - brazed	12,70
HCYCT-1	Oil pressure regulating valve (0,35 bar)	46,40
3150/X02	Oil pressure regulating valve (1,4 bar)	30,40
HCYCT-3	Oil pressure regulating valve (1,4 bar)	46,40
HCYCT-4	Oil pressure regulating valve (3,5 bar)	55,70
HCYCTR	Oil pressure regulating valve (adjustable 0,35 ÷ 3,5 bar)	122,-

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	20,50	
CV3/M12		12 mm			copper coupler	2,0	21,60	
CV3/5		5/8" (15,9 mm)			copper coupler	3,6	30,-	
CV3/M18		18 mm			copper coupler	3,6	31,50	
CV3/7		7/8" (22,4 mm)			copper coupler	5,5	35,90	
CV4/7		7/8" (22,4 mm)			copper coupler	6,6	55,90	
CV2/M22		22 mm			to valve body	6,6	57,10	
CV2/M28		28 mm			to valve body	8,8	57,10	
CV4/M28		28 mm			copper coupler	8,8	65,60	
CV2/9		1 1/8" (28,7 mm)			to valve body	8,8	57,10	
CV4/9		1 1/8" (28,7 mm)			copper coupler	8,8	65,60	
CV2/11		1 3/8" (35,2 mm)			to valve body	15,2	79,90	
CV4/11		1 3/8" (35,2 mm)			copper coupler	15,2	99,80	
CV2/13		1 5/8" (41,25 mm)			to valve body	25,0	111,-	
CV2/M42		42 mm			to valve body	25,0	129,-	
CV4/M42		42 mm			copper coupler	25,0	157,-	
CV2/17		2 1/8" (54,4 mm)			to valve body	40,0	214,-	
CV4/21		2 5/8" (66,8 mm)			copper coupler	40,0	257,-	
CV4/25	3 1/8" (79,8 mm)	copper coupler	40,0	286,-				
3132/2	CASTEL	1/4" (6,4 mm)	straight	brazed	copper coupler	0,5	21,40	
3132/M10		10 mm			copper coupler	1,5	22,80	
3133/M10		10 mm			copper coupler	1,6	23,30	
3132W/M12		12 mm			copper coupler	1,8	22,80	
3132W/5		5/8" (15,9 mm)			copper coupler	3,3	32,20	
3132W/M18		18 mm			copper coupler	5,0	35,10	
3132W/7		7/8" (22,4 mm)			copper coupler	5,0	39,90	
3144W/7		7/8" (22,4 mm)			copper coupler	8,1	65,80	
3124N/7		7/8" (22,4 mm)			to valve body	8,1	62,60	
3144W/M28		28 mm			copper coupler	10,4	71,-	
3144W/9		1 1/8" (28,7 mm)			copper coupler		71,-	
3124N/9		1 1/8" (28,7 mm)			to valve body	10,4	62,60	
3124N/M28		28 mm			to valve body	10,4	62,60	
3144W/11		1 3/8" (35,2 mm)			copper coupler	15,6	110,-	
3124N/11		1 3/8" (35,2 mm)			to valve body	15,6	91,60	
3122/13		1 5/8" (41,25 mm)			to valve body	25,0	153,-	
3124N/M42		42 mm			to valve body	25,0	155,-	
3144W/17		2 1/8" (54,4 mm)			copper coupler	39,0	300,-	
3144W/21	2 5/8" (66,8 mm)	copper coupler	39,0	319,-				
3144W/25	3 1/8" (79,8 mm)	copper coupler	39,0	371,-				
3142/25	3 1/8" (79,8 mm)	copper coupler	40,0	388,-				
020B1015	DANFOSS	10 mm	angle		copper coupler	1,4	33,50	
020B1016		12 mm			NRV 12s	copper coupler	2,1	35,-
020-1018		16 mm			NRV 16s	copper coupler	3,6	44,20
020-1020		22 mm			NRV 22s	copper coupler	8,5	87,10
020-1025		28 mm			NRV 28s	copper coupler	19,0	181,-
020-1026		35 mm			NRV 35s	copper coupler	29,0	215,-

VALVES



SPARE PARTS FOR CHECK VALVES (Castel)

Code	Description/El. Connector	Price [EUR]
004251	O-ring for valves 3120-6510-6520-6530/7-9	1,50
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	3,70
113703	O-ring for valves 3124N/7-/9; /M22-/M28	1,50
113704	O-ring for valves 3124N/11- 3125N/11	2,30
113735	O-ring for valves 3124N/13- /M42	2,80
008863	Valve gasket 3122/7 - 3122/M28	3,50
009174	Valve gasket 3122/11	4,30
009175	Valve gasket 3122/13; 3122/M42	6,10
009176	Valve gasket 3122/17; 3142/21;3142/25	7,80

* Until stock last



SHUT-OFF BALL VALVES (GMC)

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

¹⁾ With brass cap and gasket

²⁾ With brass cap, gasket and service valve

VALVES



SHUT-OFF BALL VALVES (Castel)

Code	Description/El. Connector		Ball port [mm]	Kv [m ³ /h]	Price [EUR]	
6570/3 ¹⁾	3/8"	(9,8 mm)	brazed	10	3	26,50
6570/M10 ¹⁾		10 mm		10	3	26,50
6570/4 ¹⁾	1/2"	(12,7 mm)		10	5	26,50
6570/M12 ¹⁾		12 mm		10	5	26,50
6570/5 ¹⁾	5/8"	(16,0 mm)		15	17	32,50
6570/M18 ¹⁾		18 mm		15	17	32,50
6570/7 ¹⁾	7/8"	(22,4 mm)		19	29	43,90
6570/9 ¹⁾	1 1/8"	(28,7 mm)		25	51	57,70
6570/M28 ¹⁾		28 mm		25	51	58,80
6570/11 ¹⁾	1 3/8"	(35,2 mm)		32	86	80,90
6590/M42 ¹⁾		42 mm		38	117	127,-
6590/17 ¹⁾	2 1/8"	(54,4 mm)		50	214	192,-
6570/M64A		64 mm		60	380	469,-
6571/24A	3"	(76,9 mm)		60	380	482,-
6570/28A ¹⁾	3 1/2"	(89,0 mm)	82	710	825,-	

¹⁾ With brass cap and gasket



SHUT-OFF VALVES (GMC)

Code	Description/El. Connector			Kv [m ³ /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 [m³/h]	Price [EUR]	
6210/2	1/4"	diaphragm	screwed	0,28	17,40
6210/3	3/8"			1	22,30
6210/4	1/2"			1,3	23,80
6210/5	5/8"			1,8	26,70
6220/2	1/4" (6,4 mm)			capped	brazed
6220/3	3/8" (9,8 mm)	1	22,20		
6220/4	1/2" (12,7 mm)	1,3	23,80		
6220/5	5/8" (16,0 mm)	1,8	26,70		
6420/2	1/4" (6,4 mm)	0,4	18,30		
6420/3	3/8" (9,8 mm)	1	18,80		
6420/M10	10 mm	1	18,80		
6420/4	1/2" (12,7 mm)	1,45	19,90		
6420/M12	12 mm	1,45	19,40		
6420/5	5/8" (16,0 mm)	1,7	20,50		
6420/M18	18 mm	3,5	36,80		
6420/M22	22 mm	3,5	39,90		



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)

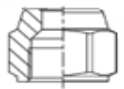
Code	Description			Price [EUR]	
	Type	Setting [bar]	El. connector		
SV2/44-14	GMC	Safety valve	14	1/2" NPTm - 1/2" Gm	29,10
SV2/44-16		Safety valve	16	1/2" NPTm - 1/2" Gm	29,10
SV2/44-21		Safety valve	21	1/2" NPTm - 1/2" Gm	26,-
SV2/44-25		Safety valve	25	1/2" NPTm - 1/2" Gm	29,10
SV2/44-28		Safety valve	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	24,90
3061/3C-28		Safety valve	28	3/8" NPTm - 1/2" Gm	27,40
3061/4C-21		Safety valve	21	1/2" NPTm - 1/2" Gm	27,40
3061/4C-28		Safety valve	28	1/2" NPTm - 1/2" Gm	27,40
3030/44C-28		Safety valve	28	1/2" NPTm - 3/4" Gm	95,80
3065/4C-16		Safety valve	16	1/2" NPTm - 1" Gm	63,20
3065/4C-21		Safety valve	21	1/2" NPTm - 1" Gm	63,30
3065/4C-28		Safety valve	28	1/2" NPTm - 1" Gm	63,20
3065/4C-40		Safety valve	40	1/2" NPTm - 1" Gm	65,50
3064/33		Shut-off valve 3/8" NPTm - 3/8" NPTf			44,60
3064/44		Shut-off valve 1/2" NPTm - 1/2" NPTf			44,60
3032/44		Change-over valve 1/2" NPTm - 2x 1/2" NPTf			82,10
3032/33		Change-over valve 3/8" NPTm - 2x 3/8" NPTf			80,40
004260		O-ring for valve 3032/44			0,50
3035/4		Brazed connection for safety valve (1/2" NPTf - 22)			9,30
3035/8		Brazed connection for safety valve (1" NPTf - 35)			18,70
366005-01	BITZER	Adapter 1/2" NPTf for Bitzer receivers			31,-

CONNECTORS, NUTS



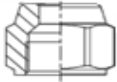
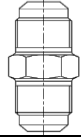


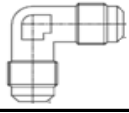
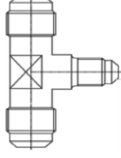


Nuts, connectors, reductions, adapters, tees (GMC, Castel i others)

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	2,30



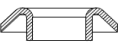


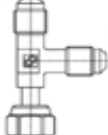


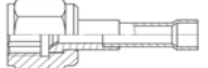






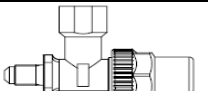
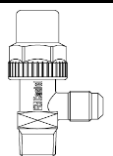
CONNECTORS, NUTS

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,-	
FN7-7	7/8" SAE f x 7/8" slot	-	Nut	10,40	
7010/77	7/8" SAE f x 7/8" slot	-	Nut	9,60	
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,-	
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	2,50	
7020/65	3/4" SAE f x 5/8" slot	-	Reducing nut	3,90	
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	3,50		
7110/5	5/8" SAE m x 5/8" SAE m	„4" Union	5,40		
7110/6	3/4" SAE m x 3/4" SAE m	„5" Union	8,90		
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	4,30		
7130/6	3/4" SAE m x 3/4" NPT m	„7" Reducing union	9,70		
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,-		
7140/54	5/8" SAE m x 1/2" NPT m	„9" Reducing union	5,80		
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,-		
7156/2	W21,8-14 f x 1/4" SAE m	„11" Adapter for cylinder	4,70		
7156/X02	W21,8-14 f x 5/16" SAE m	- Adapter for cylinder (R410A)	7,-		
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	3,50		
7210/3	3/8" SAE m x 3/8" SAE m	„37" Elbow connector	6,10		
7210/4	1/2" SAE m x 1/2" SAE m	„38" Elbow connector	10,30		
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	3,40		
7320/334	3/8" SAEm x 3/8" SAEm x 1/2" SAEm	„14" Tee	10,60		
7320/445	1/2" SAEm x 1/2" SAEm x 5/8" SAEm	„15" Tee	14,20		
7330/221	1/4" SAEm x 1/8" NPTm x 1/4" SAEm	„16" Tee	3,50		
7330/222	1/4" SAEm x 1/4" NPTm x 1/4" SAEm	„29" Tee	6,20		
7340/222	1/4" SAEm x 1/4" SAE f x 1/4" SAEm	„17" Tee	6,20		
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	1,20	
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	1,60	
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	10,40	
8380/122	1/4" SAE m x 1/4" SAE m x 1/8" NPT m	„27"	Tee with vent	3,60	
7050/3	US4-6 f x 3/8" SAE f	„30"	Screw union	4,40	
7050/4	US4-8 f x 1/2" SAE f	„31"	Screw union	5,30	
8382/1222	1/4"x1/4"x1/4" SAE m x 1/8" NPT m	„35"	Reducing cross - without vent	5,80	
8382/x04	1/4"x1/4"x1/4" SAE m x 1/4" SAE f	„36"	Cross - without vent	12,90	
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	0,90	
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	2,60	
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	16,10	
6110/X12	Angle shut-off valve for regulator 3/8" - brazed			13,70	
6110/X13	Angle shut-off valve for regulator 3/8" - screw			13,60	
6110/X15	Angle shut-off valve for regulator 1/4" f - screw			12,70	
6110/66	3/4" NPT m x 3/4" SAE m	-	Shut-off valve angle	32,50	

* 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	12,20
SDS-600	1/2" (12,7 mm)	189	51	10,5	12,80
SDS-700	5/8" (16,0 mm)	189	51	17,5	13,40
SDS-900	7/8" (22,4 mm)	229	76	26 ÷ 35	33,40
SDS-1000	1 1/8" (28,7 mm)	235	76	35 ÷ 53	46,30
SDS-1100	1 3/8" (35,2 mm)	349	76	53 ÷ 88	54,-
SDS-1200	1 5/8" (41,2 mm)	406	102	88 ÷ 175	59,80

VIBRATION ELIMINATORS CASTEL

Code	Brazed connection	Length [mm]	Operating pressure [bar]	Price [EUR]
7690/M10	10 mm	230	45	16,50
7690/M12	12 mm	230	45	17,40
7690/M15	15 mm	255	45	17,60
7690/5	5/8" (16,0 mm)	255	45	18,50
7690/M18	18 mm	255	45	22,80
7690/7	7/8" (22,4 mm)	290	45	27,90
7690/M28	28 mm	330	45	34,-
7690/11	1 3/8" (35,2 mm)	375	45	55,90
7690/M42	42 mm	430	45	77,90
7690/17	2 1/8" (54,4 mm)	510	40	121,-
7690/M64	64 mm	690	35	262,-
7690/24	3" (76,9 mm)	690	35	309,-
7690/28	3 1/2" (89,0 mm)	710	25	412,-
7690/34	4 1/4" (108,0 mm)	710	25	505,-

PRESSURE REGULATORS

LIQUID FLOW SWITCH Danfoss

Code	Description	Price [EUR]
061H4000	FQS - U30G	106,-

PRESSURE REGULATORS Castel, Danfoss

Code	Description	Price [EUR]
034L0045	KVL-22 suction pressure regulator	219,-
034L0051	KVL-28 suction pressure regulator	311,-
034L0025	KVP-22 evaporation pressure regulator	254,-
034L0031	KVP-28 evaporation pressure regulator	388,-
034L0097	KVR-15 condensing pressure regulator	169,-
034L0094	KVR-22 condensing pressure regulator	260,-
034L0100	KVR-35 condensing pressure regulator	400,-
3136/4	Pressure difference regulator (only with KVR) (1/2" brazed)	25,10
020-1136	NRD Pressure difference regulator (only with KVR)	81,50

MAIN VALVES Danfoss pressure and temperature regulation by remote controls

Code	Pressure connection	Price [EUR]
ICS-027H2044	Main valve ICS1 25-15	472,-
027B0921	CVP pilot valve from 4-28 bar	323,-

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	176,-
NTA-CR DN40	Angle shut-off and check valve	DN40 (1.1/2")	9	183,-
NTA-CR DN50	Angle shut-off and check valve	DN50 (2")	16	228,-
ATA-CR DN65	Angle shut-off and check valve	DN65 (2.1/2")	29	315,-

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	508,-
RTO DN40	Thermostatic mixing valve +54°C	DN40 (1.1/2")	32,5	866,-

PRESSURE CONTROLLED WATER VALVES Castel

Code	Pressure connection	Price [EUR]
3210/04	1/2" FPT	102,-
3210/06	3/4" FPT	106,-

MACHANICAL THERMOSTATS Danfoss, Ranco

Code	Description	Price [EUR]
060H1503	UT-72 (-30°C ÷ +30°C) AC11: 2,5 A Switching differential: 2,3 K	27,30
O16-H6936	Ranco thermostats with capillary 2,0 m (-5°C ÷ +25°C)	41,40

ELECTRONIC CONTROLLERS, THERMOMETERS, TEMPERATURE REGULATORS

Manufacturer	Code	Type	Functions	Relay outputs	Inputs		Power supply	Price [EUR]
					Sensors	Digital		
PANEL MOUNTED CONTROLLERS								
<p>TM</p> <p>EV3</p> <p>EVK</p>	TM-103A-230V	TM 103A	Electronic thermometer	-	1 x NTC (included)	-	230 V AC	52,50
	EV3-X21N7VX	EV3 X21	Cooling/heating thermostat	1	1 x NTC/PTC	1	230 V AC	27,60
	EV3-221N7	EV3 221	Cooling/heating thermostat; TTL port	1	1 x NTC/PTC	1	230 V AC	39,60
	EV3-401P7	EV3 401	Cooling/heating thermostat; TTL port		1 x NTC/PTC/ Pt1000	-	230 V AC	33,80
	EV3-411M7	EV3 411	Cooling/heating thermostat	1	1 x Pt100/Pt1000/ K/J/ 0(2)-10V, 0(4)-20 mA	1	230 V AC	55,60
	EV3-222N7	EV3 222	Refrigeration controller (compressor, heaters); TTL port	2	2 x NTC/PTC	1	230 V AC	44,40
	EV3-402P7	EV3 402	Cooling/heating thermostat; TTL port	2	1 x NTC/PTC/ Pt1000	1	230 V AC	49,30
	EV3-B23N7VX	EV3 B23	Refrigeration controller (compressor, heaters, fans)	3	2 x NTC/PTC	1	230 V AC	35,80
EVK-213N2VXBS	EVK 213	Refrigeration controller (compressor, heaters, fans); TTL port	3	2 x NTC/PTC	1	12 V AC/DC	56,30	
EV3-223N7	EV3 223	Refrigeration controller (compressor, heaters, fans); TTL port	3	2 x NTC/PTC	1	230 V AC	#N/D	


ELECTRONIC CONTROLLERS, THERMOMETERS, TEMP. REGULATORS – continued

Manufacturer	Code	Type	Functions	Relay outputs	Inputs		Power supply	Price [EUR]
					Sensors	Digital		
PANEL MOUNTED CONTROLLERS								
 DANFOSS 	080G3454	ERC 211	Cooling/heating thermostat	1	1 x Pt1000/ NTC/PTC	1	230 V AC	38,20
	080G3458	ERC 213	Refrigeration controller (compressor, heaters, fans)	3	2 x Pt1000/ NTC/PTC	2	230 V AC	52,80
	084B8522	EKC 202B	Refrigeration controller (compressor, heaters, fans)	3	2 x Pt1000/ NTC/PTC	1	230 V AC	90,-
	084B8523	EKC 202C	Refrigeration controller (compressor, heaters, fans, alarm)	4	2 x Pt1000/ NTC/PTC	1	230 V AC	96,80
DIN RAIL MOUNTED CONTROLLERS								
EVCO 	EV6-421P7VHBS	EV6 421	Cooling/heating thermostat	1	1 x NTC/PTC	1	230 V AC	68,60
	EV6-412P7VXBS	EV6 412	Cooling/heating thermostat; Independent or dependent outputs; TTL port	2	1 x NTC/PTC	-	230 V AC	72,50
	EV6-223P7VXBS	EV6 223	Refrigeration controller (compressor, heaters, fans)	3	2 x NTC/PTC	1	230 V AC	76,90
DANFOSS 	084B4164	EKC 302D	Refrigeration controller (compressor, heaters, fans)	4	3 x Pt1000/ NTC/PTC	2	230 V AC	122,-

CONTROLLES





COMPRESSOR PACK CONTROLLERS

Manufacturer	Code	Type	Outputs		Installation	Power supply	Price [EUR]
			Relay	Analog			
DANFOSS 	080G0289	AK-PC 351	6	2	DIN	24 V AC/DC	312,-
	080G0283	AK-PC 551	8	2	DIN	24 V AC/DC	509,-

PROGRAMMING KEY FOR COPYING SETTINGS



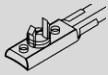
Code	Description	Price [EUR]
 EVKEY*	Programming key for copying the settings of EVCO controllers for series: EVK, EV6 i C-PRO	30,30
 EVPS*	Power supply to EVKEY, EVKEY10 i EVIF20TRX enables copying of settings without connecting the controller to the power supply	29,50

* Until stock last

ACCESSORIES FOR CONTROLLERS



TEMPERATURE SENSORS

Manufacturer	Code	Type	Type	Description	Dimension [mm]	Range [°C]	Price [EUR]
EVCO	EVTPN615F200	NTC-1.5M	NTC	Cable length 1,5 m	ø6 x 15	-40 ÷ +110	2,30
EVCO	EVTPNW15F200	NTC-1.5M-IP68	NTC	IP68, cable length 1,5 m	ø5 x 20	-40 ÷ +110	5,50
EVCO	EVTPN530F202*	EVTPN530F202	NTC	Fast sensor IP67, cable length 3 m (e.g. superheat sensor to EVDRIVE03)	ø4 x 40	-50 ÷ +110	11,40
ELIWELL	SN8DEC11502A0**	SN8DEC11502A0	NTC	Sensor IP67, cable length 1,5 m	ø4 x 40	-50 ÷ +110	16,70 PLN
DANFOSS	084B4403	EKS 211	NTC	IP67, cable length 1,5 m	ø8 x 30	-40 ÷ +80	6,70
DANFOSS	080G0205	ACCPBT	NTC	IP68, superheat sensor to EKE; cable length 1,5 m	ø6 x 40	-40 ÷ +120	8,40
EMERSON	804489	TP1-NP3	NTC	IP68, superheat sensor to EXD; cable length 3 m	ø4 x 40	-40 ÷ +120	25,80
EVCO	EVTTP815S200	PTC-1.5M	PTC	Cable length 1,5 m	ø6 x 40	-50 ÷ +120	7,20
EVCO	EVTTPW30F200	PTC-3M-IP68	PTC	IP68, cable length 3 m	ø5 x 20	-50 ÷ +120	8,80
DANFOSS	084N1178	EKS 111	PTC	IP67, cable length 1,5 m	ø6 x 30	-55 ÷ +150	13,20
EVCO	EVTTPM630F200	Pt 1000	Pt1000	IP68, cable length 3 m	ø5 x 20	-50 ÷ +110	12,-
DANFOSS	084N0036	AKS 12	Pt1000	IP67, cable length 1,5 m	ø5,8 x 40	-40 ÷ +80	30,60
DANFOSS	084N0003	AKS 11	Pt1000	Surface ,IP67, cable length 3,5 m		-40 ÷ +100	32,50
EVCO	EVTTPC815V300	PT100-350	Pt100	Cable length 1,5 m	ø6 x 100	-50 ÷ +350 cable for +250	38,-

* Until stock last

** SPECIAL OFFER until stocks last

HYGROMETERS



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

ACCESSORIES FOR CONTROLLERS

PRESSURE TRANSDUCERS



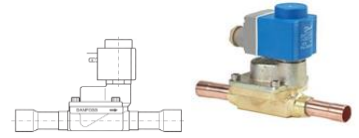
Manufacturer	Code	Type	Technical data							Price [EUR]
			Power supply	Electric connection	Output signal	Pressure connection	Pressure range [bar]		IP	
							man.	abs.		
EMERSON	805350	PT5N-07M	7..33 Vdc	selection below	4-20 mA	SAE 1/4" fem	-0,8 ÷ 7	0,2 ÷ 8	67	105,-
DANFOSS	060G2044	AKS 33	10..30 Vdc	cable gland	4-20 mA	SAE 1/4" mal	-1 ÷ 9	0 ÷ 10	65	294,-
ELIWELL	TD320009B	TD320009B	7..33 Vdc	cable 2 m	4-20 mA	SAE 1/4" fem	-1 ÷ 9	0 ÷ 10	67	56,-
	TD320030B	TD320030B					0 ÷ 30	1 ÷ 31		56,-
	TD320050B	TD320050B					-1 ÷ 50	1 ÷ 51		56,-
DANFOSS	060G5961	AKS 32R	4,75..8 Vdc	cable gland	10-90% Vz	SAE 1/4" fem	-1 ÷ 12	0 ÷ 13	65	178,-
	060G1036	AKS 32R *		selection below		SAE 1/4" mal	-1 ÷ 12	0 ÷ 13		178,-
	060G0090	AKS 32R		selection below		SAE 1/4" mal	-1 ÷ 34	0 ÷ 35		178,-
DANFOSS	060G1034		Connection to AKS 32R with wire 5 m							31,70
DANFOSS	060G0008		Electric connector PG9 for AKS 32R without wire							12,70
EMERSON	804803	PT4-M15	Electric connector for PT5N-07M with wire 1,5 m							9,20

* Until stock last

TRANSFORMERS

Code	Technical data			Price [EUR]
	Primary voltage	Secondary voltage	Power	
TZB20/ZZ	230 V	24 V	20 VA	25,-
PSS 20N	230 V	24 V	21 VA	35,40
ECT-323	230 V	24 V	25 VA	28,70
ECT-623	230 V	24 V	60 VA	32,50

SOLENOID EXPANSION VALVES



SOLENOID EXPANSION VALVES

Code	Type	Description	Price [EUR]
068F5212	AKV 10P2	Solenoid expansion valves without coil	160,-
068F5213	AKV 10P3	Solenoid expansion valves without coil	160,-
068F4044	AKV 10PS4	Solenoid expansion valves without coil	160,-
068F4045	AKV 10PS5	Solenoid expansion valves without coil	160,-
068F4046	AKV 10PS6	Solenoid expansion valves without coil	160,-
068F4047	AKV 10PS7	Solenoid expansion valves without coil	160,-
068F4048	AKV 10PS8	Solenoid expansion valves without coil	160,-
068F5001	AKV 15-1	Solenoid expansion valves without coil	442,-
068F5006	AKV 15-2	Solenoid expansion valves without coil	442,-
068F5010	AKV 15-3	Solenoid expansion valves without coil	442,-
068F5016	AKV 15-4	Solenoid expansion valves without coil	442,-
018F6801		Valve coil AKV 230 V/15 W/50 Hz for AK-CC	45,10
018F6781		Valve coil AKV 230 V direct current for EKC-414, AKC 72 A	39,10
018F6732		Valve coil AKV 10P 230 V/17 W/50 H for AK-CC	39,80



ELECTRONIC CONTROLLER OF SOLENOID EXPANSION VALVES

Code	Type	Description	Price [EUR]
084B4081	AK-CC 55 Compact	Cold room and superheat controller without display for electron. solenoid or thermostatic expansion valve	356,-
084B4083	AK-CC 55 Single Coil UI	Cold room and superheat controller with display for solenoid expansion valve	518,-
084B4076	AK-UI55 Set	Display for AK-CC 55 with buttons, panel mounting	72,60
084B4078		Connecting cable RJ12 to display AK-UI55 Set, cable 3 m	13,10

ELECTRONIC STEPPER EXPANSION VALVES + CONTROLS



SETS of ETS electronic stepper expansion valves with controllers

Code/Description	Set contents	Price [EUR]
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	939,20
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	756,40
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	998,20
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	815,40
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	801,40
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	618,60
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	801,40
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	618,60

ELECTRONIC STEPPER EXPANSION VALVES + CONTROLS



ELECTRONIC STEPPER EXPANSION VALVES

Code	Type	Description	Price [EUR]
034G7501	ETS 12C	Electronic stepper expansion valve Colibri, straight brazed connection 16 x 16 mm	262,-
034G7902	ETS 24C	Electronic stepper expansion valve Colibri, straight brazed connection 22 x 22 mm	321,-
034G7702	ETS 50C	Electronic stepper expansion valve with built-in sight glass, straight brazed connection 28 x 28 mm	457,-
034G5055	ETS 6-32	Electronic stepper expansion valve (without coil), angle brazed connection 5/16" x 5/16"	114,-
034G5065	ETS 6-40	Electronic stepper expansion valve (without coil), angle brazed connection 5/16" x 5/16"	114,-
034G5145	Cewka ETS 6	Coil for valves ETS 6; cable length 1,5 m	41,60
034G7073	-	PVC cable with connection for ETS, ETS Colibri and CCMT valves; cable length 2 m; IP67	33,30




ELECTRONIC STEPPER VALVE CONTROLS

Code	Type	Description	Price [EUR]
080G5300	EKE 1A	Superheat controller for ETS, ETS Colibri, CCMT stepper valves; without display; power supply 24 V AC/DC	181,-
080G5350	EKE 1B	Superheat controller for ETS, ETS Colibri, CCMT stepper valves; without display; with Modbus; power supply 24 V AC/DC	236,-
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	423,-
080G0294	MMIGRS2	Additional LCD display with buttons, panel mounting	177,-
080G0075	ACCCBI	Display connection cable MMIGRS2; cable length 1,5 m	5,80

ELECTRONIC STEPPER EXPANSION VALVES + CONTROLS



ELECTRONIC STEPPER VALVE CONTROLS + ACCESSORIES

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

¹⁾ 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	388,50
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	454,10



ELECTRONIC STEPPER EXPANSION VALVES

Code	Description	Price [EUR]
EX4-M21	Electronic stepper expansion valve straight brazed connection 10 x 16 mm	254,-
EX5-U21	Electronic stepper expansion valve straight brazed connection 16 x 22 mm	254,-
EX6-M21	Electronic stepper expansion valve straight brazed connection 22 x 28 mm	311,-
EX7-M21	Electronic stepper expansion valve straight brazed connection 28 x 35 mm	453,-
EXV-M60	Cable 6m with connection to stepper valves	19,40



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	188,-
EXD-SH2	Superheat controller for two EX, FX and CX el. stepper expansion valves with display, 24 V AC/DC power supply	224,-
EXD-M03	Sensor and power connection, 12-core 3 m cable, for EXD controllers	31,80
ECC-N30*	Cable for ECD displays, 3 m, RJ45/RJ45	5,80

* Until stock last

FAN SPEED CONTROLLERS






FAN SPEED CONTROLLERS

Manufacturer	Code	Type	Power supply	Max. current	Description	Price [EUR]
 Danfoss	061H3140	XGE 4C	1-phase	3	Condensing pressure regulator, housing IP65 <ul style="list-style-type: none"> • set point 10 ÷ 25 bar • adjustment range 6 bar • pressure connection 1/4" NPT fem 	107,-
	061H3160	XGE 6C		3	Condensing pressure regulator, housing IP65 <ul style="list-style-type: none"> • set point 22 ÷ 39 bar (R410A) • adjustment range 7 bar • pressure connection 1/4" NPT fem 	107,-
 Alco	FSY-42S	FSY-42S		4	Condensing pressure regulator, housing IP65 <ul style="list-style-type: none"> • set point 9,2 ÷ 21,2 bar • adjustment range 3,8 bar • pressure connection 1/4" NPT fem requires additional FSF-N15 cable (see accessories below)	101,-
	Danfoss	061H3005		RGE-Z1N4-7DS	4	Condensing pressure regulator, housing IP54 <ul style="list-style-type: none"> • set point 8 ÷ 28 bar • adjustment range 4 bar • pressure connection 1/4" NPT fem
 Danfoss	061H3008	RGE-Z1P4-7DS		6	Condensing pressure regulator, housing IP54 <ul style="list-style-type: none"> • set point 8 ÷ 28 bar • adjustment range 4 bar • pressure connection 1/4" NPT fem 	260,-
	061H3009	RGE-Z1Q4-7DS		8	Condensing pressure regulator, housing IP54 <ul style="list-style-type: none"> • set point 8 ÷ 28 bar • adjustment range 4 bar • pressure connection 1/4" NPT fem 	311,-
	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)
 Danfoss	061H3006	RGE-X3R4-7DS		3-phase	5	Condensing pressure regulator, housing IP54 <ul style="list-style-type: none"> • set point 8 ÷ 28 bar • adjustment range 4 bar • pressure connection 1/4" NPT fem




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 717,-
	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 765,-
 Eliwell	FA53371500	FASEC 33	1-phase	7	Liquid temperature controller <ul style="list-style-type: none"> • 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	87,20
 Ziehl Abegg	303588	P-E-4		4	Adjustable housed fan speed controller IP54	152,-

ACCESSORIES

Manufacturer	Code	Type	Description	Price [EUR]
 Micronova	LCD2000	LCD 2000	LCD display for ADR with connecting cable 0,9 m	105,-
 Micronova	ADR-EX	ZPK01	Extension card for ADR 80 (DP) and 230 (DP); additional functions for ADR: <ul style="list-style-type: none"> • Disabling external signal control; DI input • ADR alarm signaling; DO output; IP22 	61,-
 Alco	FSF-N15	FSF-N15	1,5 m cable with connection and EMV filter for FSY-42S	28,10

CONTROL CABINETS

CONTROL CABINETS



Code	Type	Description	Price [EUR]
080Z3220	AK-RC 111*	OPTYMA controller for cold rooms (1-phase) with two EKS 211 temperature sensors	248,-
080Z3221	AK-RC 113	OPTYMA controller for cold rooms (3-phase) 4,5 A ÷ 6,3 A with two EKS 211 temperature sensors	744,-
080Z3222	AK-RC 103	OPTYMA controller for cold rooms (3-phase) 7 A ÷ 10 A with two EKS 211 temperature sensors	744,-

* Until stock last

MOUNTING MATERIALS

INSULATION MATERIALS KAIMANN



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

¹⁾ 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	37,40/m²
IZ-MATA-19-M	19	10	54,-/m²
IZ-MATA-25-M	25	8	68,90/m²
IZ-MATA-32-M	32	6	87,40/m²
IZ-MATA-SP-10-M	10 self-adhesive	20	44,90/m²
IZ-MATA-SP-13-M	13 self-adhesive	14	52,20/m²
IZ-MATA-SP-19-M	19 self-adhesive	10	70,20/m²
IZ-TAS-KAUCZ-10M-M	Self-adhesive rubber foam tape 10 mb x 48 mm x 3 mm		17,-
IZ-TAS-KAUCZ-15M-M	Self-adhesive rubber foam tape 15 mb x 48 mm x 3 mm		22,10
IZ-TAS-KAUCZ-15M-96MM-M	Self-adhesive rubber foam tape 15 mb x 96 mm x 3 mm		44,20
IZ-TAS-TEKST-B-M	Reinforced textile self-adhesive tape 50 mb x 48 mm white		22,-
IZ-TAS-TEKST-CZ-M	Reinforced textile self-adhesive tape 50 mb x 48 mm black		22,-
IZ-TAS-TEKST-CZEX-M	Strong adhesive textile tape 50 mb x 50 mm black		28,10
IZ-TAS-ZB-AL-M	Reinforced aluminum self-adhesive tape 45 mb x 50 mm x 50 µm		24,10
IZ-KLEJ-220G-M	KAIFLEX 414 – adhesive for mats and tubes 220 g, can with brush		45,60
IZ-KLEJ-660G-M	KAIFLEX 414 – adhesive for mats and tubes 660 g		81,50
IZ-KLEJ-2.200G-M	KAIFLEX 414 – adhesive for mats and tubes 2200 g		212,-
IZ-FARBA SZARA-M	Kaimann "Kaifinish" paint to protect rubber insulation against UV rays. 0,75 l; RAL 7035		157,-

SEALING PASTES

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

BRAZING ACCESSORIES

Code	Description	Price [EUR]
WM-L-BUTLA MAXIG-M	Maxigas cylinder – 610 ml	14,10
WM-L-BUTLA TLEN-M	Oxygen cylinder – 930 ml	24,50
WM-L-TURBO SET 90/SB-M	Turbo Set 90/SB brazing kit (without cylinder)	147,-
BT-FLEECE-M	Cleaning fleece for copper tubes (10 pcs.)	13,50 PLN

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. 140,-
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. 276,-
AG50+ PHOSBRAZ	Brazing alloy, Ag 5%, Cu 88,4%, P 6,6%, 2x500 mm (kg) (Tt* = 650°C ÷ 770°C)	486,-
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 2 562,-
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 1 864,-
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 2 972,-
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 2 142,-
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 3 192,-
5040TBW-BRAZARGENT-3	3 150,-	
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 3 315,-
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 3 493,-
AG Active	AG Active universal flux - paste, 0,2 kg package	57,-



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	9,50
OK-RK-9011-M	AC-9011 copper capillary tube length 1,5 m with opener (ø 1,5 mm internal)	38,- PLN

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



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

MOUNTING MATERIALS

GOMAX MATERIALS FOR DIY

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



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

MOUNTING MATERIALS



RXA005



RXA012

GOMAX TOOLS FOR DIY FLEXIBLE CAPILLARY TUBES

Code	Description	Price [EUR]
WXA004	Polyamide hose cutter 2/4/6 mm	20,10
RXA007	Hand Pliers for capillary hoses fittings 2mm	187,-
RXA005	Hydraulic Pliers for capillary hoses fittings 4 and 6 mm in plastic case	1 608,-
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)	2 803,-
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)	4 022,-

MOUNTING MATERIALS

FLEXIBLE CAPILLARY TUBES D 2 mm (internal dim.)

Code	Description ¹⁾	Price [EUR]
EC-RK/2-600-PP-M	RK-600 MM flexible capillary tube 600 mm with two straight connections 1/4" SAE (nut)	5,80

¹⁾ Polyamide capillary tubes D 2 mm, ozone and UV resistant, colours: black, orange, blue

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	5,10
EC-ZL-TR/2-2-142-M *	Tee - 2 tube connections, 1 x 1/4" SAE in the center	6,10
EC-ZL-TR/2-2-143-M *	Tee - 2 tube connections, 1 x 1/4" SAE on the side	6,10
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	8,10
EC-ZL-CZW/2-145-M *	Cross - 3 tube connections, 1 x 1/4" SAE	11,90
EC-OBC/2-502-M *	EC - 200634 tube cutter 2 mm	6,80
AC-PODKL-7580/2-M	7580/2 copper gasket	0,20

* 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	4,70/m
EC-ZL-PRZP/5S-301-M *	Straight, screwed, steel connection 1/4" SAE	4,10/pc.
EC-ZL-PRZP/5Z-201-M *	Straight, crimp, steel connection 1/4" SAE	3,80/pc.
EC-ZL-PRZP/5Z-202-M *	Straight, crimp, copper connection 1/4" SAE	3,20/pc.
EC-ZL-PRZP/5S-341-M *	Straight, screwed, steel connection 3/8" SAE	5,70/pc.
EC-ZL-PRZP/5Z-241-M *	Straight, crimp, steel connection 3/8" SAE	5,20/pc.
EC-ZL-PRZP/5Z-242-M *	Straight, crimp, copper connection 3/8" SAE	4,20/pc.
EC-ZL-PRZK/5S-361-M *	Elbow 90° fitting 90° screwed steel 3/8" SAE	7,60/pc.
EC-ZL-PRZK/5Z-221-M *	Elbow 90° fitting 90° crimp steel 1/4" SAE	4,50/pc.
EC-ZL-PRZK/5Z-222-M *	Elbow 90° fitting 90° crimp copper 1/4" SAE	3,70/pc.
EC-ZL-PRZK/5Z-261-M *	Elbow 90° fitting 90° crimp steel 3/8" SAE	7,-/pc.
EC-ZL-PRZK/5Z-262-M *	Elbow 90° fitting 90° crimp copper 3/8" SAE	5,90/pc.

* Until stock last

OILS

Code		Model	Volume [l]	Description	Price [EUR]
915110-02	BITZER	BSE 32	1	piston compr. Bitzer, R404A - R134a - R507	30,-
915110-04		BSE 32	5	piston compr. Bitzer, R404A - R134a - R507	134,-
915110-05		BSE 32	10	piston compr. Bitzer, R404A - R134a - R507	259,-
915111-02		BSE 55	1	piston compr. Bitzer, R134a	31,-
915111-04		BSE 55	5	piston compr. Bitzer, R134a	138,-
915109-04**		B100	10	screwed compr. Bitzer R22	338,- PLN
915102-12		B 5.2	1	piston compr. Bitzer, R22	13,-
915101-11		B 5.2	5	piston compr. Bitzer, R22	63,-
915115-04		BSE 170	5	screwed compr. Bitzer, R404A	208,-
915115-05		BSE 170	10	screwed compr. Bitzer, R404A	323,-
915124-07*		B 320 SH	1	compact screw compr. Bitzer, R22	38,-
915117-07*		B 150 SH	20	screwed compr. Bitzer, R22	466,-
915133-01		BVC 32	1	compr. GSD (scroll) Bitzer, R410A	44,-
915133-02		BVC 32	5	compr. GSD (scroll) Bitzer, R410A	191,-
915125-01		BSE 60K	1	compr. Bitzer, subcritical applications CO ₂	27,-
915125-03		BSE 60K	10	compr. Bitzer, subcritical applications CO ₂	234,-
915128-02		BSE 85K	1	compr. Bitzer, transcritical applications CO ₂	68,-
915128-03		BSE 85K	5	compr. Bitzer, transcritical applications CO ₂	324,-
915128-01		BSE 85K	10	compr. Bitzer, transcritical applications CO ₂	633,-
120Z0638	DANFOSS	175PZ	1	compr. Maneurop, R404, R407, R134A, R507, R448A, R449A, R452A	83,80
120Z0639		175PZ	2,5	compr. Maneurop, R404, R407, R134A, R507, R448A, R449A, R452A	172,-
6012.K.01	ERRECOM	POE 32	1	piston compr., R404A, R134A, R407A/B/C/F, R507; metal container	19,70
6012.P.01		POE 32	5	piston compr., R404A, R134A, R407A/B/C/F, R507; metal container	83,90
6015.K.01		POE 46	1	piston compr. Dorin, R404A, R134A, R407A/B/C/F, R507; metal container	22,-
6015.P.01		POE 46	5	piston compr. Dorin, R404A, R134A, R407A/B/C/F, R507; metal container	93,90
6020.P.01		POE 170	5	screwed compr., R404A, R134A, R407A/B/C/F, R507; metal container	117,-
6065.P.01		46	5	mineral oil, piston compr., R22; metal container	47,-
6063.P.P2		POE 85	5	piston compr., R744; plastic container	131,-

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

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	7,20
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	7,90
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	8,60
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	9,60
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	10,90
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	12,40
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	14,40
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	15,90
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	19,20
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	22,60

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	12,30
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	14,20
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	15,80
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	19,80
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	23,70
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	27,60
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	31,40
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	33,40
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	45,-
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	53,-

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	3,20/m
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	9,-/m
FL-KGK-FT/KIT0-5-M	tips Flexelec (5 pc.) for FTP0, FTP0/T, FTSO, FTSO/T, FTSM, FTSM/T		8,-
FL-KGK-SILT25-M	Glue for tips Flexelec SILT, 25 g		6,20

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)	13,10/m
FL-KGK-FS/KIT5-M	tips Flexelec (5 pc.) for FSG, FST, FSO		30,30

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	14,90
FL-GK-OPAS-FCH-30-M	Heating band (crankcase) Flexelec 45 W, 230 V, Ø max 280 mm	15,90

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	4,80

* 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	284,-
MINI-ORANGE	Mini Orange condensate pump – 12 l/h max. lift height 10 m, 20 W, 230 V, 50 Hz	557,-
MAXI-ORANGE*	Mini Orange condensate pump – 35 l/h max. lift height 10 m, 23 W, 230 V, 50 Hz	658,-

* 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 "+"	15,-/m
KB-FOLIA-POLAR-M	Polar (frost proof) (-25°C up to +30°C) colour light blue "-"	17,20/m
KB-FOLIA-SUP-POLAR-M	Super Polar (frost proof) (-50°C up to +20°C) colour light blue "-"	20,10/m

FITTINGS FOR STRIP CURTAINS

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

OTHER COMPONENTS

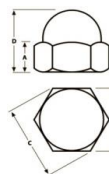
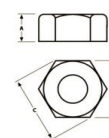


BLUEMAY nylon mounts

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



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



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")	-	8,80
70033	Cutter	4-28 mm (1/8"-1 1/8")	-	17,50
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)	-	93,40



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	45,60	-
70057D	Rothenberger AUTOMATIK2	108,50	-
70341	Rothenberger INOX	92,-	-
RATC-11	Robinaair RATC-10001 – titanium	-	9,30
74761	206 FB	-	15,40
70138	70038	-	8,60
70034	70033	-	2,62
80121	80021	-	3,61
S16003162	IMPERIAL TC-1000 i 174F for soft tubes	-	9,06
S75015	IMPERIAL TC-1000 i 174F	-	8,22
S75046	IMPERIAL TC-1000 i 174F for hard and inox tubes	-	11,52



TB-368M



MULTIBEND 180°
(Rothenberger)

BENDING MACHINES FOR SOFT COPPER TUBES

Code	Description	Price	
		[PLN]	[EUR]
25402-12	Bender Rothenberger Multibend 180° -12 mm	434,-	-
25404-15	Bender Rothenberger Multibend 180° -15 mm	622,-	-
25406-18	Bender Rothenberger Multibend 180° -18 mm	737,-	-
370-FH	Bender IMPERIAL 1/4", 3/8", 1/2", up to 180°	-	103,-
TB-368M	Bender 6, 8, 10 mm, do 90°	-	21,70

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	-	62,30
RA-801E	Eccentric flaring ROBINAIR 6, 8, 10, 12, 16 i 18 mm + case	-	135,-

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)	285,-
ROZW-15*	Flaring attachment for reeling flaring tool (15 mm)	57,-/pc.
ROZW-16*	Flaring attachment for reeling flaring tool (16 mm)	57,-/pc.

* 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]
COMBI-KIT*	Expander + tee extractor set 12-15-18-22 mm	3 703,-	-
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	-	679,-
71600-03	Expander die 3/8"	-	46,50
71600-04	Expander die 1/2"	-	46,50
71600-05	Expander die 5/8"	-	46,50
71600-06	Expander die 3/4"	-	46,50
71600-07	Expander die 7/8"	-	46,50
71600-10M	Expander die 10 mm	-	46,50
71600-12M	Expander die 12 mm	-	46,50
71600-15M	Expander die 15 mm	-	46,50
71600-16M	Expander die 16 mm	-	46,50
71600-18M	Expander die 18 mm	-	46,50
71600-22M	Expander die 22 mm	-	46,50
71600-28M	Expander die 28 mm	-	54,90
WE-35	Expander die 35 mm	-	165,-
WE-42	Expander die 42 mm	-	165,-

* Until stock last

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)	7,80
70082	Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (straight)	10,60
W124	Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (angle)	9,70
127-CO	IMPERIAL Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (angle)	23,10
127-C	IMPERIAL Valve ratchet wrench 3/16", 1/4", 5/16", 3/8" (straight)	23,10



PA6



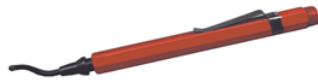
PA11

FIN COMBS

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



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)	-	13,10
11006	Deburber Rothenberger inter.-exter. for Cu and Al, 4-36 mm	86,10	-
21655	Deburber Rothenberger GRATFIX HSS with universal blade nr 1	143,-	-
71685	Deburber with metal handle + 1 spare blade	-	22,-
21652	Rothenberger blades for GRATFIX HSS deburrer nr 1	60,90	-
71686-2	Deburber blades 71685 (2 pc.)	-	12,90



WSR-2146



WSR-2149

MIRRORS

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

MANIFOLDS, PRESSURE GAUGES, HOSES



W5PF80/A6/4

MANIFOLDS

Code	Description					Price [EUR]
	Number of valves	Connections	Refrigerants	Pressure gauges	Accessories	
Manifolds						
F2PF80/A6/4*	2	3x1/4"SAE	R22, R134a, R404A, R407C	pulse free with calibration D 80 mm, cl. 1.6	sight glass, plastic case, 3x hose 900 mm	177,-
F2PF80/D9/4/K1		3x1/4"SAE	R448A, R449A, R452A, R513A		sight glass, plastic case	136,-
PF2PF80/A4/5*		3x5/16"SAE	R410A, R32		sight glass, plastic case, 3x hose 1800 mm	218,-
W4PF80/A6/4*	4	3x1/4"SAE i 1x3/8"SAE	R22, R134a, R404A, R407C		sight glass, plastic case, 4x hose 900 mm	217,-
W4PF80/D9/4/K1		3x1/4"SAE i 1x3/8"SAE	R448A, R449A, R452A, R513A		sight glass, plastic case	160,20
W5PF80/A6/4*	5	3x1/4"SAE i 1x3/8"SAE	R22, R134a, R404A, R407C		sight glass, plastic case, 4x hose 1500 mm	305,-
Manifold bodies (without gauges)						
W1LSM/4	1	2x1/4"SAE	Connection for gauge: 1x1/8"NPT		-	26,70
85102-1/4	2	3x1/4"SAE	Connections for gauges: 2x1/8"NPT		sight glass	39,30
86102-1/4	4	4x1/4"SAE	Connections for gauges: 2x1/8"NPT		sight glass	91,70
Spare parts for manifolds						
WKG-07-H	Spare part for diaphragm manifold – HIGH snob kit					9,30
WKG-07-L	Spare part for diaphragm manifold – LOW snob kit					9,30
WKG-07-V	Spare part for diaphragm manifold – VAC snob kit					9,30
PWP	Complete piston					4,10

* 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	337,-

MANIFOLDS, PRESSURE GAUGES, HOSES



WIKA



MS, PF



BL



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	128,- PLN
31191865	HP					R407C, R134a, R404A/R507, R448A/R449A			128,- PLN
MS80/15R1/A6	LP	No	No	Yes	WIGAM	R22, R134a, R404A, R407C	80	Bottom 1/8"NPT	13,70
MS80/35R1/A6	HP					R22, R134a, R404A, R407C			13,70
MS80/38R1/A4	LP					R410A, R32			13,70
MS80/53R1/A4	HP					R410A, R32			13,70
PF80/15R1/A6*	LP					R134a, R404A, R22, R407C			20,70
PF80/18R1/D9	LP					R448A, R449A, R452A, R513A			22,20
PF80/35R1/A6*	HP					R134a, R404A, R22, R407C			20,70
PF80/38R1/D9	HP					R448A, R449A, R452A, R513A			22,20
407-CB*	LP	No	No	Yes	IMPE- RIAL	R404A, R407C, R134a	63	Bottom 1/8"NPT	23,-
407-CR*	HP					R404A, R407C, R134a			23,-
BL60/10R1/A6/K1	LP	Yes	No	No	WIGAM	R134a, R404A, R22, R407C	60	Bottom 1/8"NPT	84,90
BL60/30R1/A6/K1	HP					R134a, R404A, R22, R407C			84,90
ML60/18R4FP/E1	LP	Yes	Yes	No	WIGAM	R404A, R448A, R449A, R134a, R452A	60	Bottom 1/4"SAE	19,20
ML60/38R4FP/E1	HP					R404A, R448A, R449A, R134a, R452A			19,20
MNBL-1*	LP	No	No	Yes	MASTER- COOL	R455A, R448A	80	Bottom 1/8"NPT	35,70
MNBH-1*	HP					R455A, R448A			35,70

* 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	22,80

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)	37,40
40372	Set of 3 hoses 1800 mm 1/4" SAE, max.operating pressure 41 bar, R134a, R404A (red, yellow, blue)	43,60
V/GYSS/4-4/60-R	Red hose with valve 1/4" SAE, operating pressure 56 bar, 1500 mm	27,30
V/GYSS/5-5/60-R	Red hose with valve 5/16" SAE, operating pressure 56 bar, 1500 mm, R410A	27,40
V/GYSS/4-4/60-B	Blue hose with valve 1/4" SAE, operating pressure 56 bar, 1500 mm	27,30
V/GYSS/5-5/60-B	Blue hose with valve 5/16" SAE, operating pressure 56 bar, 1500 mm, R410A	27,40
G-19020	Hose seals 1/4" SAE (10 pc.)	4,60
G-19516	Hose seal 5/16" f SAE (10 pc.)	5,60
D-19302	Hose service valve opener 1/4" f SAE (WIGAM)	0,52
121-RG4-Y	Straight ball valve for hoses 1/4" m SAE x 1/4" f SAE (yellow)	15,90
G-19030	Hose seal 3/8" f SAE	0,72
404/5*	Reducing union 1/4" SAE -fm x 5/16" SAE-m	2,60
404/6*	Reducing union 1/4" SAE -fm x 3/8" SAE-m	2,60
ZOK-1/4"	Angle service valve 1/4"inter. x 1/4" exter. with manual opening	19,50
ZOK-5/16"	Angle service valve with manual hose opening 5/16"	19,50
8320/21	Shut-off valve 1/4" SAE m x 1/8" NPT f with pressure gauge attachment	16,10
G19020/T	Teflon seals for hoses (10 pc.) 1/4" SAE	6,50

* 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)	379,-
RS3D	Vacuum pump WIGAM 2-stage, 46 l/min, 20 W/230 V/AC/ 1 / 50 Hz + 0,4 l oil K1L	369,-
DIP-402*	Vacuum pump WIGAM 2-stage, 90 l/min, 250 W/230 V/AC/ 1 / 50 Hz + 0,4 l oil K1L	536,-
RS9D	Vacuum pump WIGAM 2-stage, 180 l/min, 370 W/230 V/AC/1/50 Hz + 0,4 l oil K1L	684,-
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	1 187,-
1010.M.P2	Errecom oil for all vacuum pumps, HD, 0,5 l	15,50
1010.K.P2	Errecom oil for all vacuum pumps, HD, 1 l	27,80
7130/2	„6” reducing union Castel 1/4”m SAE x 1/4”m NPT do P2D, DIP 402	1,80

* 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)	1 341,-
VORTEX	Filter dryer replacement for recovery unit Vortex Dual (722-409-P1)	34,80

PORTABLE FAN FOR FLAMMABLE REFRIGERANTS



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

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 ₂ (R744 change of sensor required), flammable refrigerants HC (R290, R600a, R441a - change of sensor required), ammonia R717, SF ₆ 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	1 279,-
D-TEK 3	Inficon leak detector for R22, R32, R134a, R404A, R407C, R410A, R422B, R448A, R449A, R452A, R452B, R507, R1234yf, CO ₂ (R744 change of sensor required), flammable refrigerants HC (R290, R600a, R441a - change of sensor required), ammonia R717, SF ₆ 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	742,-
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	313,-
CS LD 1.0	Bosch leak detector for R32, R134a, R1234yf, R454A, R290, R600, R600a, tracer gas (95%N ₂ /5%H ₂), 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 ₂ /5%H ₂), 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	328,-

* 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-2 *	Flow gas sensor TIF ZX-2 do ATPZX-1A	85,10
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 ₂	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 ₂ , 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	150,-

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)	24,90
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)	51,10
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	5,50

* 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	8,10
TR1143	Micro leak detection fluid Best Bubbles – spray 1 l	8,90

ELECTRONIC THERMOMETERS

Code	Description	Price [EUR]
ST10	Pocket thermometer WIGAM (-50°C/+300°C), battery powered	13,80
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	23,90
TFC-502	Thermometer WIGAM (-200°C/+800°C), 2 inputs, battery powered, 2 standard sensors (-50°C/+400°C), resolution 0.1°C	167,-
CZ-105	Temperature sensor to TFC-502 surface (-50°C/+200°C)	86,50
CZ-106	Temperature sensor to TFC-502 food (-50°C /+600°C)	40,60



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	323,-
719-202-G1*	Scale Wey-TEK HD Wireless, 115 kg, wireless, 4 batteries AA, plastic case, reading via Bluetooth® on a smartphone	379,-
PRATIKA-100-05	Scale WIGAM load capacity 100 kg, precision 5 g, battery powered + plastic case	236,-
TIF9030E	Scale TIF load capacity 100 kg, precision 10 g, battery powered	205,-
719-715-G1*	Wireless remote control for the Wey-TEK HD Wireless scale	222,-

* 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	-	41,10
82934-E	MASTERCool Angle suction self-locking connector R134a (blue) 90° 1/4" FL-Mx13 mm	-	41,10
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	-	43,60
8330/A	Line piercing valve with schrader to drain refrigerant, tube 6 - 10 mm x 1/4" SAE m	-	31,70
EW-3900	Device for replacing valves under pressure (1/4" f SAE)	-	36,60
EW-3900/5	Device for replacing valves under pressure 5/16" SAE R410A	-	36,60
91337	Set of vents (4 sizes) for car air conditioning systems using R12, R134a - with key	-	84,70
7156/2	Castel „11" cylinder adapter W21,8 (6) x 1/4"	-	4,70
7156/X02	Castel cylinder adapter R410A (5/16")	-	7,-

FLUSHING LIQUIDS



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

SEALING PASTES

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

* 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	15,20
CARLYCLEAN-P		-	5 l	52,30
CARLYBIO-S	Germical and disinfectant substance	spray bottle	500 ml	16,30
CARLYBIO-P		-	5 l	102,-
CARLYPRO-S	Liquid cleaner and disinfectant for exchangers	spray bottle	500 ml	16,80
CARLYPRO-P		-	5 l	115,-
AB1068.K.01	Cleaning agent for evaporators and plastics, apple scent	dilute, spray bottle	1 l	9,90
AB1068.P.01		concentrate, dilution 1:5	5 l	23,50
AB1085.Q.01	SANIBACT Germical and disinfecting liquid for air conditioning and cooling systems	concentrate,	250 ml	8,80
AB1085.K01		dilution 1:25	1 l	25,-
AB1085.P.01			5 l	117,-
AB1046.K.01	BEST COND CLEANER Alkaline agent for cleaning condensers and evaporators	dilute, spray bottle	1 l	10,-
AB1209.P.01		concentrate, dilution 1:6	5 l	28,20
AB1212.P.01	BEST ACID COND CLEANER Acidic agent for cleaning condensers and evaporators	concentrate, dilution 1:6	5 l	21,40

ACIDITY TESTS AND NEUTRALIZERS

Code	Description	Price [EUR]
TESTOIL-POE	Synthetic and polyester oil acidity test	16,50
RK1349	ACID TEST Oil acidity test	20,30
STOPACID-MAS*	Mineral and alkyl benzene oil acid neutraliser, 30 ml (on 2 l oil)	24,-
STOPACID-POE	Polyester oil acid neutraliser, 30 ml (on 2 l oil)	53,60
TR1175	NO ACID ULTRA Acid neutraliser for air conditioning and cooling systems	17,-

PROTECTIVE GELS

Code	Description	Price [EUR]
CARLYCOOL	Heat absorbing gel, spray 0,6 l	24,80
TR1141.K.01	PROTECT GEL Protective gel for welding, spray 1 l	13,10

OTHER CHEMICAL PRODUCTS

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

* Until stock last

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	12,-
M-RKR-3/8"-M	3/8	9,52 x 0,81	19,80
M-RKR-1/2"-M	1/2	12,7 x 0,81	26,90
M-RKR-5/8"-M	5/8	15,88 x 0,89	37,10
M-RKR-3/4"-M	3/4	19,05 x 0,89	45,10
M-RKR-7/8"-M	7/8	22,22 x 1,00	59,20



METRIC TUBES - COILS 25 m

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

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	11,30
M-RSZ-250-10-M	10 x 0,8	20,50
M-RSZ-250-12-C-M	12 x 0,76	23,80
M-RSZ-250-12-M	12 x 1,0	30,60
M-RSZ-250-15-C-M	15 x 0,76	30,-
M-RSZ-250-15-M	15 x 1,0	38,80
M-RSZ-250-18-C-M	18 x 0,81	38,60
M-RSZ-250-18-M	18 x 1,0	47,20
M-RSZ-250-22-C-M	22 x 0,81	47,60
M-RSZ-250-22-M	22 x 1,0	58,10
M-RSZ-250-28-C-M	28 x 1,0	74,90
M-RSZ-250-28-M	28 x 1,5	111,-
M-RSZ-250-35-C-M	35 x 1,25	118,-
M-RSZ-250-35-M	35 x 1,5	140,-
M-RSZ-250-42-C-M	42 x 1,25	143,-
M-RSZ-250-42-M	42 x 1,5	170,-
M-RSZ-250-54-C-M	54 x 1,5	219,-
M-RSZ-250-54-M	54 x 2,0	289,-
M-RSZ-250-64-M	64 x 2,0	345,-
M-RSZ-250-76-M	76 x 2,0	411,-
M-RSZ-250-88,9-M	88,9 x 2,0	484,-
M-RSZ-250-108-M	108 x 2,5	737,-





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	22,20
M-RSZ-290-1/2"-M	1/2" ~ 12,70 x 0,76	72	29,10



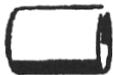
COPPER FITTINGS





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



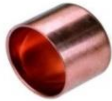

	Code	Description	1	2	3	Price [PLN]
			Size [mm]	Size [mm]	Size [mm]	
Elbows 90° 2-flaring 	ŁUK-6	Elbow 90°	6	-	-	2,40
	ŁUK-10	Elbow 90°	10	-	-	4,90
	ŁUK-12	Elbow 90°	12	-	-	3,10
	ŁUK-15	Elbow 90°	15	-	-	3,40
	ŁUK-18	Elbow 90°	18	-	-	5,-
	ŁUK-22	Elbow 90°	22	-	-	8,60
	ŁUK-28	Elbow 90°	28	-	-	13,80
	ŁUK-35	Elbow 90°	35	-	-	38,60
	ŁUK-42	Elbow 90°	42	-	-	36,20
	ŁUK-54	Elbow 90°	54	-	-	94,80
	ŁUK-64	Elbow 90°	64	-	-	203,-
	ŁUK-76	Elbow 90°	76	-	-	284,-
	ŁUK-89	Elbow 90°	89	-	-	452,-
	ŁUK-108	Elbow 90°	108	-	-	648,-
Elbows 45° 2-flaring 	ŁUK-12-45°	Elbow 45°	12	-	-	8,-
	ŁUK-15-45°	Elbow 45°	15	-	-	3,10
	ŁUK-18-45°	Elbow 45°	18	-	-	5,70
	ŁUK-22-45°	Elbow 45°	22	-	-	5,30
	ŁUK-28-45°	Elbow 45°	28	-	-	11,40
	ŁUK-35-45°	Elbow 45°	35	-	-	29,30
	ŁUK-42-45°	Elbow 45°	42	-	-	53,60
	ŁUK-54-45°	Elbow 45°	54	-	-	116,-
	ŁUK-64-45°	Elbow 45°	64	-	-	218,-
	ŁUK-76-45°	Elbow 45°	76	-	-	253,-
	ŁUK-89-45°	Elbow 45°	89	-	-	416,-
	ŁUK-108-45°	Elbow 45°	108	-	-	552,-

COPPER FITTINGS

	Code	Description	1	2	3	Price [PLN]
			Size [mm]	Size [mm]	Size [mm]	
Elbows 90° 1-flaring 	ŁUK-N-10	Street elbow 90°	10	-	-	10,90
	ŁUK-N-12	Street elbow 90°	12	-	-	4,20
	ŁUK-N-15	Street elbow 90°	15	-	-	3,70
	ŁUK-N-18	Street elbow 90°	18	-	-	6,70
	ŁUK-N-22	Street elbow 90°	22	-	-	8,50
	ŁUK-N-28	Street elbow 90°	28	-	-	15,30
	ŁUK-N-35	Street elbow 90°	35	-	-	43,50
	ŁUK-N-42	Street elbow 90°	42	-	-	53,20
	ŁUK-N-54	Street elbow 90°	54	-	-	94,60
	ŁUK-N-64	Street elbow 90°	64	-	-	236,-
	ŁUK-N-76	Street elbow 90°	76	-	-	247,-
ŁUK-N-89	Street elbow 90°	89	-	-	352,-	
ŁUK-N-108	Street elbow 90°	108	-	-	630,-	
Elbows 45° 1-flaring 	ŁUK-N-10-45	Street elbow 45°	10	-	-	19,10
	ŁUK-N-12-45	Street elbow 45°	12	-	-	5,90
	ŁUK-N-15-45	Street elbow 45°	15	-	-	3,-
	ŁUK-N-18-45	Street elbow 45°	18	-	-	6,50
	ŁUK-N-22-45	Street elbow 45°	22	-	-	5,70
	ŁUK-N-28-45	Street elbow 45°	28	-	-	9,80
	ŁUK-N-35-45	Street elbow 45°	35	-	-	32,40
	ŁUK-N-42-45	Street elbow 45°	42	-	-	57,30
	ŁUK-N-54-45	Street elbow 45°	54	-	-	85,20
	ŁUK-N-64-45	Street elbow 45°	64	-	-	229,-
	ŁUK-N-76-45	Street elbow 45°	76	-	-	253,-
	ŁUK-N-89-45	Street elbow 45°	89	-	-	348,-
	ŁUK-N-108-45	Street elbow 45°	108	-	-	421,-
Couplers 	MUFA-10	Coupler	10	-	-	2,50
	MUFA-12	Coupler	12	-	-	1,50
	MUFA-15	Coupler	15	-	-	1,70
	MUFA-18	Coupler	18	-	-	2,60
	MUFA-22	Coupler	22	-	-	3,80
	MUFA-28	Coupler	28	-	-	4,80
	MUFA-35	Coupler	35	-	-	11,30
	MUFA-42	Coupler	42	-	-	24,20
	MUFA-54	Coupler	54	-	-	36,80
	MUFA-64	Coupler	64	-	-	63,20
	MUFA-76	Coupler	76	-	-	82,-
	MUFA-89	Coupler	89	-	-	83,-
	MUFA-108	Coupler	108	-	-	213,-

			1	2	3	
			Size [mm]	Size [mm]	Size [mm]	Price [PLN]
	Code	Description				
Coupling reducers 	M-RED-12-10	Coupling reducer	12	10	-	7,50
	M-RED-15-10	Coupling reducer	15	10	-	10,30
	M-RED-15-12	Coupling reducer	15	12	-	4,60
	M-RED-18-12	Coupling reducer	18	12	-	9,70
	M-RED-18-15	Coupling reducer	18	15	-	3,80
	M-RED-22-12	Coupling reducer	22	12	-	20,90
	M-RED-22-15	Coupling reducer	22	15	-	9,30
	M-RED-22-18	Coupling reducer	22	18	-	6,20
	M-RED-28-15	Coupling reducer	28	15	-	20,-
	M-RED-28-18	Coupling reducer	28	18	-	12,30
	M-RED-28-22	Coupling reducer	28	22	-	6,90
	M-RED-35-22	Coupling reducer	35	22	-	24,20
	M-RED-35-28	Coupling reducer	35	28	-	27,60
	M-RED-42-28	Coupling reducer	42	28	-	52,30
	M-RED-42-35	Coupling reducer	42	35	-	46,20
	M-RED-54-35	Coupling reducer	54	35	-	78,20
	M-RED-54-42	Coupling reducer	54	42	-	73,80
	M-RED-64-42	Coupling reducer	64	42	-	74,80
	M-RED-64-54	Coupling reducer	64	54	-	83,20
	M-RED-76-54	Coupling reducer	76	54	-	132,-
	M-RED-76-64	Coupling reducer	76	64	-	137,-
	M-RED-89-64	Coupling reducer	89	64	-	207,-
	M-RED-89-76	Coupling reducer	89	76	-	212,-
M-RED-108-76	Coupling reducer	108	76	-	280,-	
M-RED-108-89	Coupling reducer	108	89	-	268,-	
Bushings 	N-RED-12-10	Bushing	12	10	-	6,70
	N-RED-15-10	Bushing	15	10	-	7,-
	N-RED-15-12	Bushing	15	12	-	3,20
	N-RED-18-12	Bushing	18	12	-	7,30
	N-RED-18-15	Bushing	18	15	-	3,20
	N-RED-22-15	Bushing	22	15	-	4,80
	N-RED-22-18	Bushing	22	18	-	4,60
	N-RED-28-15	Bushing	28	15	-	16,80
	N-RED-28-18	Bushing	28	18	-	19,90
	N-RED-28-22	Bushing	28	22	-	7,50
	N-RED-35-22	Bushing	35	22	-	27,20
	N-RED-35-28	Bushing	35	28	-	21,30
	N-RED-42-28	Bushing	42	28	-	36,80
	N-RED-42-35	Bushing	42	35	-	32,40
	N-RED-54-35	Bushing	54	35	-	64,10
	N-RED-54-42	Bushing	54	42	-	72,-
	N-RED-64-42	Bushing	64	42	-	97,70
	N-RED-64-54	Bushing	64	54	-	93,-
	N-RED-76-54	Bushing	76	54	-	108,-
	N-RED-76-64	Bushing	76	64	-	124,-
	N-RED-89-64	Bushing	89	64	-	127,-
	N-RED-89-76	Bushing	89	76	-	123,-
	N-RED-108-76	Bushing	108	76	-	245,-
N-RED-108-89	Bushing	108	89	-	213,-	

COPPER FITTINGS

	Code	Description	1	2	3	Price [PLN]
			Size [mm]	Size [mm]	Size [mm]	
Tees 	TR-6	Tee	6	6	6	4,80
	TR-10	Tee	10	10	10	6,40
	TR-12	Tee	12	12	12	4,10
	TR-15	Tee	15	15	15	4,50
	TR-18	Tee	18	18	18	8,50
	TR-22	Tee	22	22	22	10,20
	TR-28	Tee	28	28	28	16,30
	TR-35	Tee	35	35	35	42,30
	TR-42	Tee	42	42	42	72,80
	TR-54	Tee	54	54	54	121,-
	TR-64	Tee	64	64	64	316,-
	TR-76	Tee	76	76	76	378,-
	TR-89	Tee	89	89	89	730,-
	TR-108	Tee	108	108	108	812,-
Reduction tees 	TR-15-10-15	Reduction tee	15	10	15	19,80
	TR-15-12-15	Reduction tee	15	12	15	7,70
	TR-15-18-15	Reduction tee	15	18	15	18,70
	TR-18-22-18	Reduction tee	18	22	18	25,60
	TR-22-12-22	Reduction tee	22	12	22	27,60
	TR-22-15-22	Reduction tee	22	15	22	10,10
	TR-22-18-22	Reduction tee	22	18	22	12,20
	TR-22-28-22	Reduction tee	22	28	22	47,50
	TR-28-22-28	Reduction tee	28	22	28	20,20
	TR-28-35-28	Reduction tee	28	35	28	101,-
	TR-35-22-35	Reduction tee	35	22	35	59,70
	TR-35-28-35	Reduction tee	35	28	35	81,80
	TR-42-35-42	Reduction tee	42	35	42	174,-
	TR-54-42-54	Reduction tee	54	42	54	305,-
End caps 	ZAŚ-10	End cap	10	-	-	4,20
	ZAŚ-12	End cap	12	-	-	4,50
	ZAŚ-15	End cap	15	-	-	2,90
	ZAŚ-18	End cap	18	-	-	3,30
	ZAŚ-22	End cap	22	-	-	5,20
	ZAŚ-28	End cap	28	-	-	9,70
	ZAŚ-35	End cap	35	-	-	28,30
	ZAŚ-42	End cap	42	-	-	42,60
	ZAŚ-54	End cap	54	-	-	54,80
	ZAŚ-64	End cap	64	-	-	59,20
	ZAŚ-76	End cap	76	-	-	152,-
	ZAŚ-89	End cap	89	-	-	235,-
	ZAŚ-108	End cap	108	-	-	173,-
Oil traps 	SYFON-18	Oil trap	18	-	-	63,-
	SYFON-22	Oil trap	22	-	-	80,-
	SYFON-28	Oil trap	28	-	-	102,-
	SYFON-35	Oil trap	35	-	-	178,-
	SYFON-42	Oil trap	42	-	-	332,-
	SYFON-54	Oil trap	54	-	-	582,-

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	2,30
ER-400056-M	Clamp SUPER FIX M8	3/8	15-19	2,50
ER-400057-M	Clamp SUPER FIX M8	1/2	21-23	2,60
ER-400058-M	Clamp SUPER FIX M8	3/4	26-28	2,80
ER-400059-M	Clamp SUPER FIX M8	1	32-35	3,10
ER-400060-M	Clamp SUPER FIX M8	1 1/4	40-43	3,30
ER-400062-M	Clamp SUPER FIX M8	1 1/2	48-52	4,10
ER-589320-M	Clamp SUPER FIX M8	2	57-61	4,50



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	3,20
ER-586202-M	Clamp MACRO FIX M8	3/8	15-19	3,20
ER-586203-M	Clamp MACRO FIX M8	1/2	19-25	3,40
ER-586204-M	Clamp MACRO FIX M8	3/4	25-31	3,70
ER-586205-M	Clamp MACRO FIX M8	1	31-37	4,-
ER-586206-M	Clamp MACRO FIX M8	1 1/4	37-44	4,30
ER-586208-M	Clamp MACRO FIX M8	1 1/2	50-58	4,50
ER-586209-M	Clamp MACRO FIX M8	2	58-65	5,70



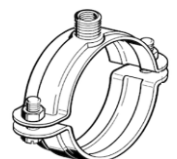
DOUBLE SCREW CLAMP WITH NUT M8/M10

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



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	45,80
SI-OBEJ-STABIL-19-23-M	Silicone clamp Stabil D-3G	200°C	19-23	43,40
SI-OBEJ-STABIL-24-28-M	Silicone clamp Stabil D-3G	200°C	24-28	49,80
SI-OBEJ-STABIL-33-37-M	Silicone clamp Stabil D-3G	200°C	33-37	53,70
SI-OBEJ-STABIL-40-45-M	Silicone clamp Stabil D-3G	200°C	40-45	59,90

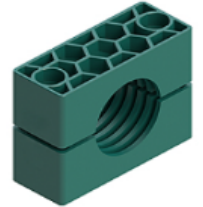


* Until stock last

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	5,80
MENOS-10-CZ-M		Black	120/-40°C		8,50
MENOS-12-Z-M		Green	90/-30°C	12	5,80
MENOS-12-CZ-M		Black	120/-40°C		8,50
MENOS-15-Z-M		Green	90/-30°C	15	6,40
MENOS-15-CZ-M		Black	120/-40°C		9,30
MENOS-18-Z-M		Green	90/-30°C	18	6,40
MENOS-18-CZ-M		Black	120/-40°C		9,30
MENOS-22-Z-M		Green	90/-30°C	22	7,40
MENOS-22-CZ-M		Black	120/-40°C		10,10
MENOS-28-Z-M		Green	90/-30°C	28	10,60
MENOS-28-CZ-M		Black	120/-40°C		12,90
MENOS-35-Z-M		Green	90/-30°C	35	12,20
MENOS-35-CZ-M		Black	120/-40°C		19,-
MENOS-42-Z-M		Green	90/-30°C	42	13,10
MENOS-42-CZ-M		Black	120/-40°C		19,80
MENOS-55-Z-M		Green	90/-30°C	55	19,30
MENOS-55-CZ-M		Black	120/-40°C		33,-
MENOS-65-Z-M		Green	90/-30°C	65	38,30
MENOS-65-CZ-M		Black	120/-40°C		77,50
MENOS-76.1-Z-M		Green	90/-30°C	76,1	97,50
MENOS-76.1-CZ-M		Black	120/-40°C		181,-
MENOS-88.9-Z-M		Green	90/-30°C	88,9	97,80
MENOS-88.9-CZ-M		Black	120/-40°C		181,-



DOUBLE THREAD SCREWS

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



WALL PLUG (NYLON)

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



MOUNTING SYSTEMS

PROFILES AND FITTINGS

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



CLAMPS

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



THREADED RODS

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



FIXINGS FOR TRAPEZOIDAL SHEETS

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



PINS FOR CONCRETE

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



PINS FOR BRICK

Code	Description	Size [mm]	Price [PLN]
ER-593100-M	Pin for brick CL8	M8	1,50
ER-593110-M	Pin for brick CL10	M10	1,90



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 ¹⁾	Complete vibration isolation TID N1 (small beige)	150-300	45	M10	18,30
SO-WIBR-TID-N2-M ²⁾	Complete vibration isolation TID N2 (beige)	330-500	45	M12	30,70
SO-WIBR-TID-N3-M ²⁾	Complete vibration isolation TID N3 (red)	460-700	60	M12	30,70
SO-WIBR-TID-N4-M ²⁾	Complete vibration isolation TID N4 (black)	670-950	70	M12	30,70



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

²⁾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	59,-
BM-M10-M	Nylon rod M10	80 kg	10x1000	66,50
BM-M12-M	Nylon rod M12	120 kg	12x1000	79,50
BM-M16-M	Nylon rod M16	165 kg	16x1000	133,-



MOUNTING SYSTEMS



BLUEMAY nylon mounts (washer, nuts)

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

