

Model
GTK80AT

Sales code:
CDO00155

Compressor Data

Refrigerant(s)	R134a
Weight	8.60 kg / 18.96lbs
Displacement	7.70 cm3 / 0.47cu.in
Compressors on pallet	100



General – Configurations With GTK80AT

-	Conf. 1	Conf. 2
Motor configuration	RSCR	RSIR
Power supply (nominal)	200-240 V/50 Hz	200-240 V/50 Hz
Number of phases	1	1
Voltage range	170-264 V	170-264 V
Approvals	VDE, EAC	VDE, EAC
Starting torque	LST	LST
Refrigerant	R134a	R134a
Application	LBP	LBP

Application Notes

- Various options of housing are possible (dip-tray fixture) - please contact SECOP-Sales.
- Various options of connectors are possible - please contact SECOP-Sales.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

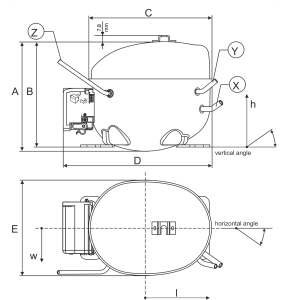
Oil type	POE	Winding resistance main	10.4 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	20.5 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,560 cm ³ / 52.75fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

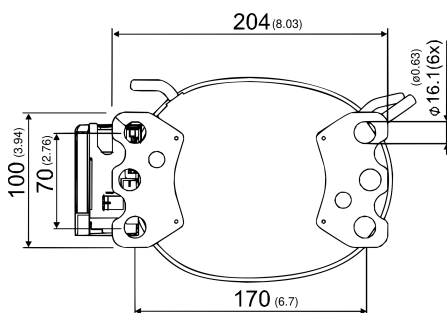
A Height	177mm / 6.97in
B Height	170mm / 6.69in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



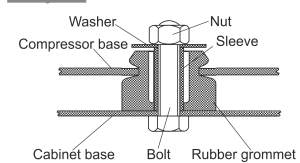
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70 / -5.51/5.35/2.76in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	75 / 2.95in

Mounting Accessories

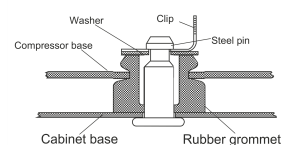


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
'4ZN' with rubber grommet	–	772N
'4ZN' with rubber grommet and sleeve for M6	–	768N
Bolt joint kit	–	4ZN + 118-1917 (18)
'4ZN' with Snap on kit	–	776N

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Configuration 1

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Configuration

Motor configuration	RSCR
Power supply (nominal)	200-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	170-264 V
Starting torque	LST
Approvals	VDE, EAC
Starting device type	PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	8.25 A
Cut in current (U(N))	15.5 A

Ambient/ machine room temperatures minimum /maximum

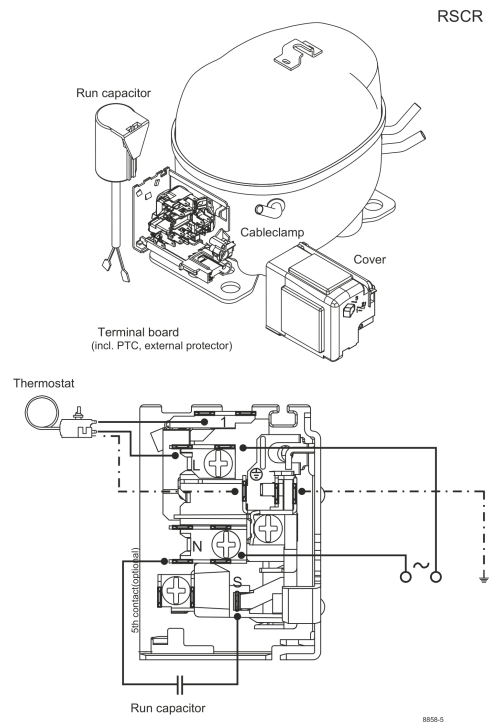
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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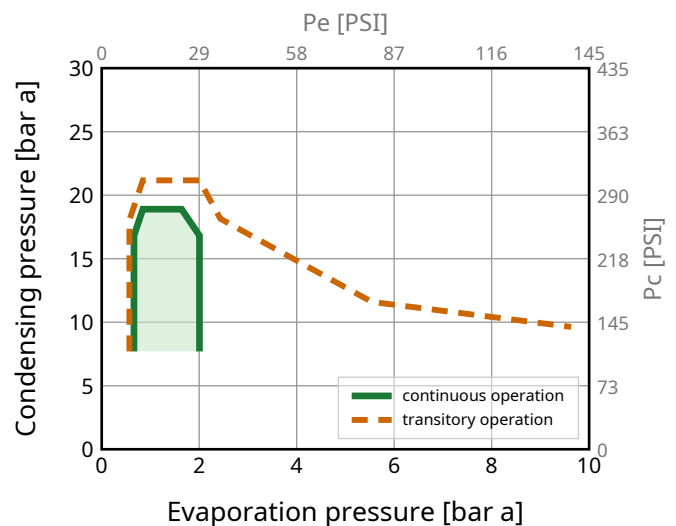
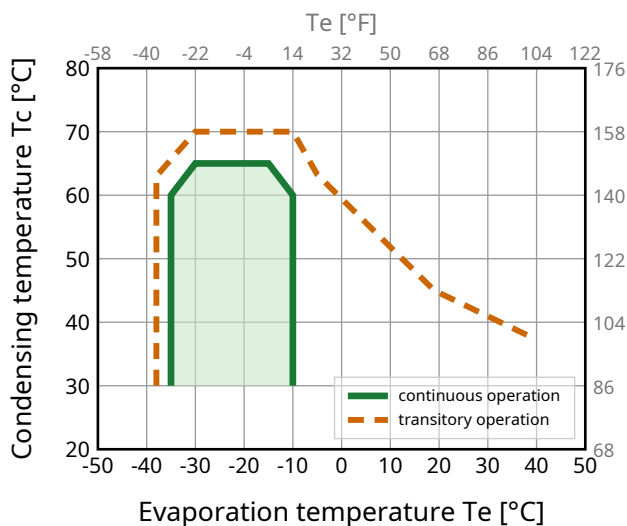
Components

- . terminal board (PTC, 4.8mm) ZC FP
- . run capacitor (4 μ F, 4.8/6,3mm) cap. 4 μ F
- . motor protector BDG AE 72 FU x AE72FUX
- . cover + clamp + screws (Nr. 4ZN) 16168000

Alternative components

- . terminal board (PTC, 6.3mm) DC FP
- . run capacitor (4 μ F, 4.8/6,3mm) cap. 4 μ F
- . motor protector BDG AE 72 FU x AE72FUX
- . cover + clamp + screws (Nr. 4ZN) 16168000

Operation Pressure Range



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Configuration 1

Sales code:
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Standard Conditions

R134a, 200 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	232	790	199	1.60	5.45	145	0.66	4.49	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	170	582	147	1.23	4.19	139	0.63	4.07	CECOMAF LBP
-35 -31	40 104	20 68	40 104	122	415	104	1.16	3.96	105	0.48	2.66	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	192	655	165	1.36	4.64	141	0.65	5.04	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	254	865	218	1.87	6.38	136	0.66	4.92	AHAM LBP
-35 -31	45 113	32 89.6	45 113	113	385	97	1.06	3.62	106	0.46	2.43	opt LBP

Performance Tables

R134a, 200 V/50 Hz, RSCR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	113	385	97	1.06	3.62	106	0.46	2.43
-30	-22	154	527	133	1.31	4.46	118	0.54	3.33
-25	-13	204	694	175	1.53	5.23	133	0.62	4.40
-20	-4	262	893	225	1.75	5.96	150	0.71	5.67
-15	5	331	1128	284	1.97	6.72	168	0.81	7.19
-10	14	412	1407	355	2.21	7.54	187	0.90	9.01

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	86	292	74	0.80	2.73	107	0.45	2.03
-30	-22	125	428	108	1.03	3.52	121	0.53	2.98
-25	-13	170	582	147	1.23	4.19	139	0.63	4.07
-20	-4	223	761	192	1.41	4.79	159	0.73	5.33
-15	5	284	970	245	1.58	5.39	180	0.84	6.83
-10	14	357	1217	307	1.76	6.02	202	0.95	8.60

Model
GTK80AT

Configuration 2

Sales code:
CDO00155

Configuration

Motor configuration	RSIR
Power supply (nominal)	200-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	170-264 V
Starting torque	LST
Approvals	VDE, EAC
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	8.25 A
Cut in current (U(N))	15.5 A

Ambient/ machine room temperatures minimum /maximum

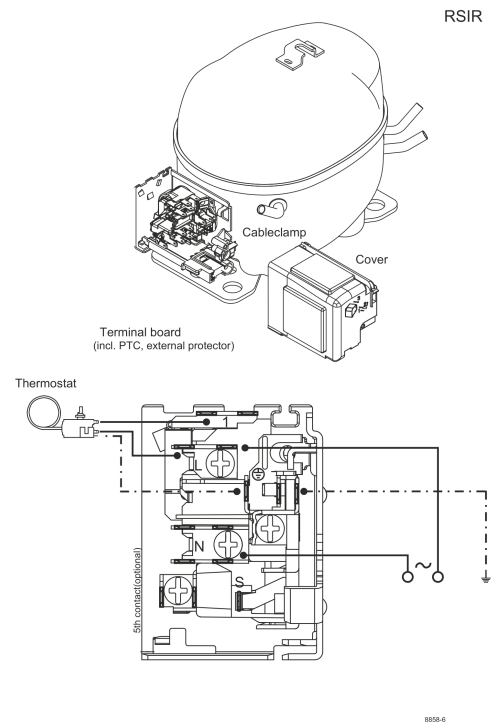
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Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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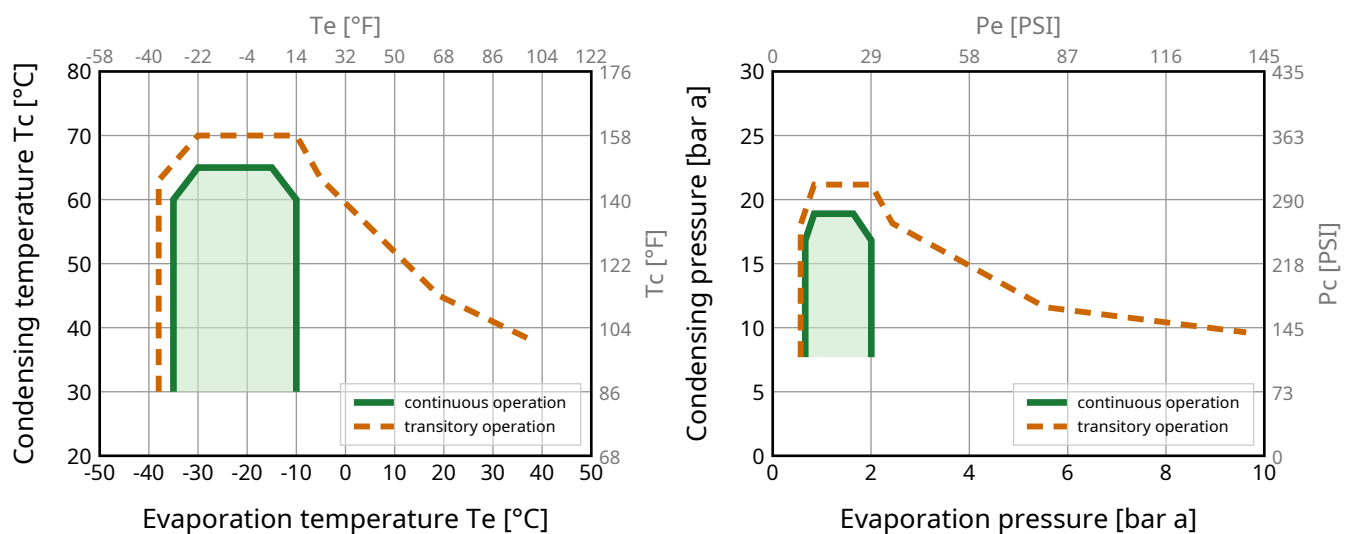
Components

- . terminal board (PTC,4.8mm) ZC FP
- . motor protector BDG AE 72 FU x AE72FUX
- . cover + clamp + screws (Nr. 4ZN) 16168000

Alternative components

- . terminal board (PTC,6.3mm) DC FP
- . motor protector BDG AE 72 FU x AE72FUX
- . cover + clamp + screws (Nr. 4ZN) 16168000

Operation Pressure Range



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Configuration 2

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Standard Conditions

R134a, 200 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	232	790	199	1.52	5.18	153	0.73	4.49	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	170	581	147	1.17	3.99	146	0.70	4.06	CECOMAF LBP
-35 -31	40 104	20 68	40 104	121	413	104	1.11	3.79	109	0.51	2.65	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	192	655	165	1.29	4.40	149	0.71	5.04	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	253	864	218	1.77	6.04	143	0.68	4.91	AHAM LBP
-35 -31	45 113	32 89.6	45 113	113	384	97	1.01	3.46	111	0.53	2.42	opt LBP

Performance Tables

R134a, 200 V/50 Hz, RSIR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	113	384	97	1.01	3.46	111	0.53	2.42
-30	-22	154	526	133	1.24	4.24	124	0.59	3.33
-25	-13	203	694	175	1.45	4.96	140	0.67	4.40
-20	-4	261	892	225	1.65	5.64	158	0.76	5.67
-15	5	330	1126	284	1.86	6.36	177	0.85	7.18
-10	14	412	1404	354	2.09	7.13	197	0.95	8.99

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	85	291	73	0.77	2.61	111	0.55	2.02
-30	-22	125	427	108	0.98	3.36	127	0.61	2.98
-25	-13	170	581	147	1.17	3.99	146	0.70	4.06
-20	-4	223	760	192	1.33	4.55	167	0.80	5.33
-15	5	284	970	244	1.50	5.11	190	0.90	6.82
-10	14	356	1215	306	1.67	5.69	213	1.01	8.59