

Model
GTK70AT

Sales code:
CDO00154

Compressor Data

Refrigerant(s)	R134a
Weight	9.65 kg / 21.27lbs
Displacement	6.64 cm3 / 0.41cu.in
Compressors on pallet	100



General – Configurations With GTK70AT

-	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

Model
GTK70AT

Sales code:
CDO00154

Compressor Design

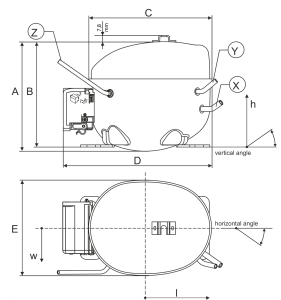
Oil type	POE	Winding resistance main	11.9 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	11.8 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,560 cm ³ / 52.75fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

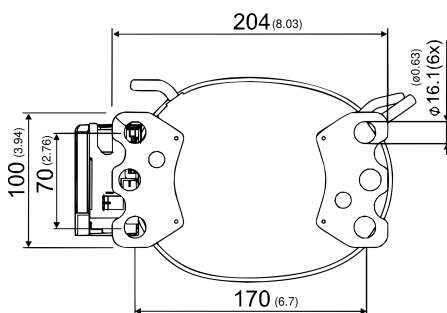
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



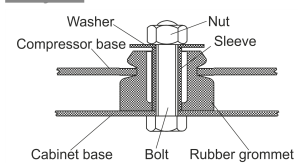
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

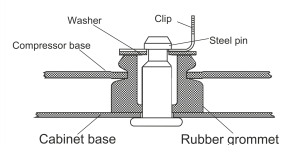


Dimensions in mm [in]

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

Model
GTK70AT

Configuration 1

Sales code:
CDO00154

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))	7.3 A
RLA (rated load amps / 1s/ U(N))	0.6 A
Cut in current (U(N))	11.1 A

Ambient/ machine room temperatures minimum /maximum

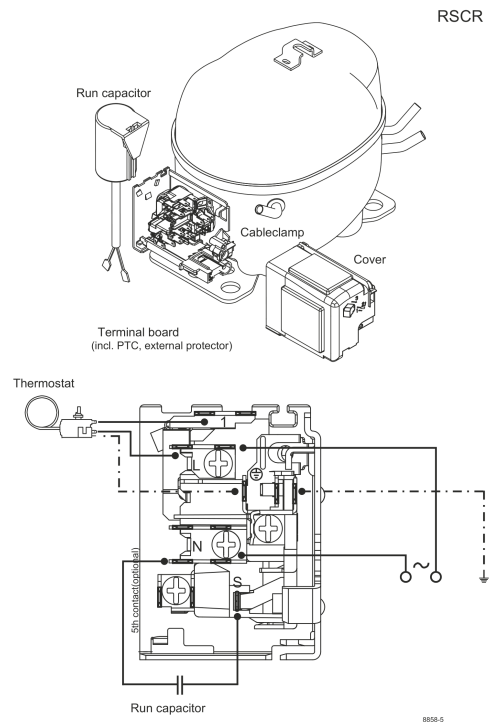
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



[View full size](#)

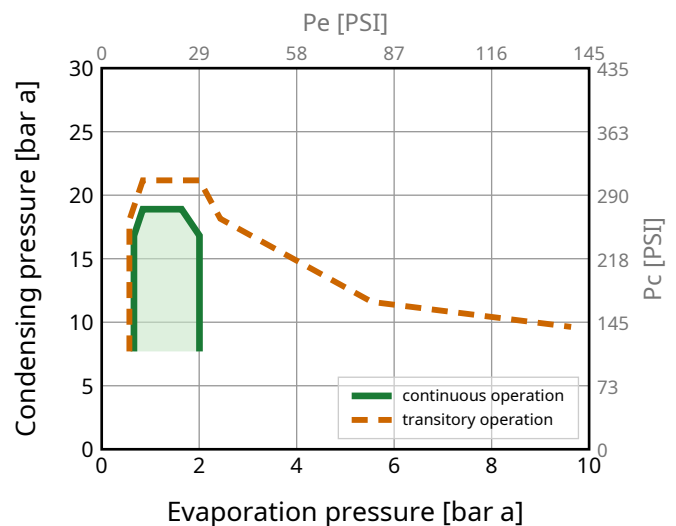
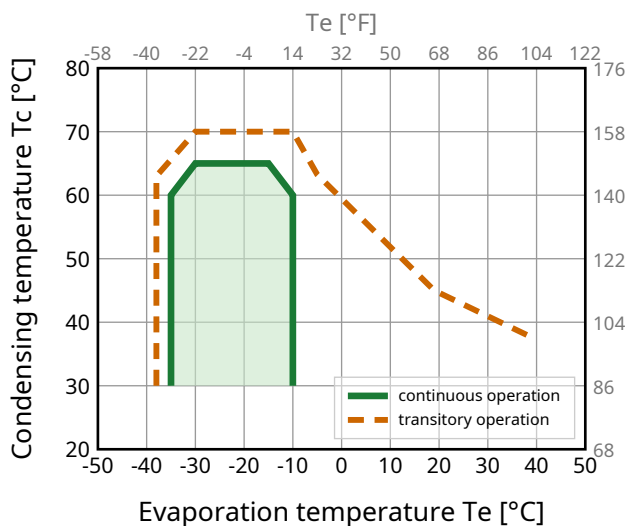
Components

- . 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



Model
GTK70AT

Configuration 1

Sales code:
CDO00154

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	205	698	176	1.60	5.45	128	0.60	3.97	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	151	515	130	1.23	4.19	123	0.57	3.60	CECOMAF LBP
-35 -31	40 104	20 68	40 104	104	355	89	1.14	3.89	91	0.44	2.27	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	169	576	145	1.36	4.63	124	0.60	4.43	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	222	757	191	1.89	6.44	118	0.57	4.31	AHAM LBP
-35 -31	45 113	32 89.6	45 113	98	333	84	1.05	3.58	93	0.46	2.10	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	98	333	84	1.05	3.58	93	0.46	2.10
-30	-22	134	458	115	1.28	4.38	104	0.51	2.90
-25	-13	178	607	153	1.52	5.19	117	0.57	3.85
-20	-4	230	783	197	1.76	6.02	130	0.64	4.98
-15	5	291	993	250	2.02	6.90	144	0.71	6.33
-10	14	363	1239	312	2.30	7.84	158	0.79	7.93

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

-35	-31	78	267	67	0.86	2.92	91	0.43	1.86
-30	-22	112	381	96	1.05	3.58	107	0.50	2.66
-25	-13	151	515	130	1.23	4.19	123	0.57	3.60
-20	-4	197	671	169	1.41	4.81	139	0.66	4.71
-15	5	251	856	216	1.60	5.48	156	0.74	6.02
-10	14	315	1073	271	1.82	6.20	173	0.83	7.59

Model
GTK70AT

Configuration 2

Sales code:
CDO00154

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))	7.3 A
RLA (rated load amps / 1s/ U(N))	0.6 A
Cut in current (U(N))	11.1 A

Ambient/ machine room temperatures minimum /maximum

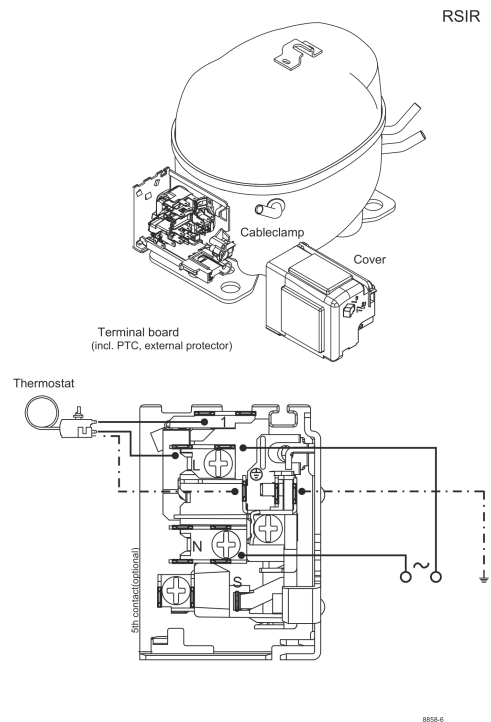
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



[View full size](#)

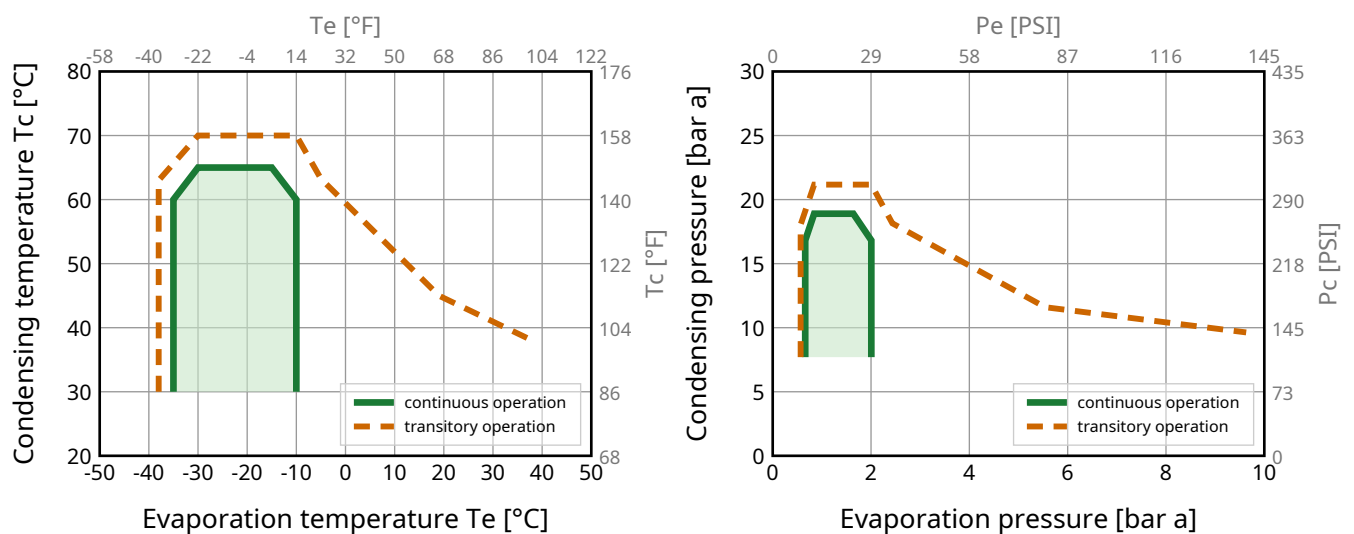
Components

- . 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



Model
GTK70AT

Configuration 2

Sales code:
CDO00154

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	205	698	176	1.52	5.18	135	0.64	3.97	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	151	515	130	1.17	3.99	129	0.60	3.60	CECOMAF LBP
-35 -31	40 104	20 68	40 104	104	355	89	1.09	3.72	96	0.45	2.27	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	169	576	145	1.29	4.39	131	0.62	4.43	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	222	757	191	1.79	6.11	124	0.57	4.31	AHAM LBP
-35 -31	45 113	32 89.6	45 113	98	333	84	1.00	3.42	97	0.45	2.10	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	98	333	84	1.00	3.42	97	0.45	2.10
-30	-22	134	458	115	1.22	4.17	110	0.50	2.90
-25	-13	178	607	153	1.45	4.93	123	0.57	3.85
-20	-4	230	783	197	1.67	5.71	137	0.65	4.98
-15	5	291	993	250	1.92	6.54	152	0.73	6.33
-10	14	363	1239	312	2.18	7.44	166	0.82	7.93

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

-35	-31	78	267	67	0.82	2.79	96	0.45	1.86
-30	-22	112	381	96	1.00	3.41	112	0.52	2.66
-25	-13	151	515	130	1.17	3.99	129	0.60	3.60
-20	-4	197	671	169	1.34	4.57	147	0.70	4.71
-15	5	251	856	216	1.52	5.20	165	0.80	6.02
-10	14	315	1073	271	1.72	5.88	183	0.90	7.58