

Model
GTK55AT

Sales code:
CDO00153

Compressor Data

Refrigerant(s)
Weight
Displacement
Compressors on pallet

R134a
7.66 kg / 16.89lbs
5.60 cm3 / 0.34cu.in
100



General – Configurations With GTK55AT

-	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
GTK55AT

Sales code:
CDO00153

Compressor Design

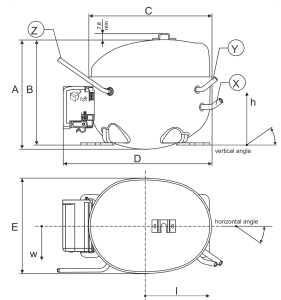
Oil type	POE	Winding resistance main	17.200 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	23.10 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,560 cm ³ / 52.75fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

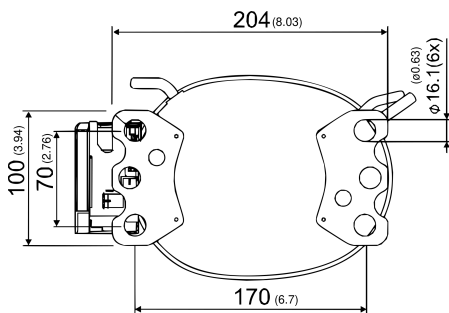
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



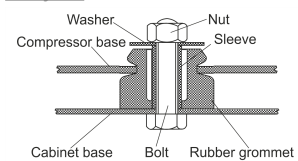
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi #N/A–#N/A	øi 5.92–6.08 / 0.23–0.24in
Material	CU	#N/A	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

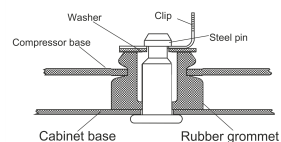


Dimensions in mm [in]

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
GTK55AT

Configuration 1

Sales code:
CDO00153

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))	5.7 A
Cut in current (U(N))	11.1 A

Ambient/ machine room temperatures minimum /maximum

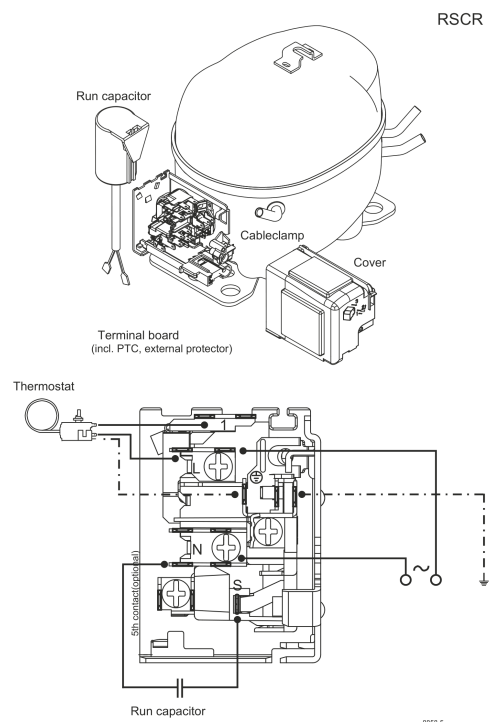
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



[View full size](#)

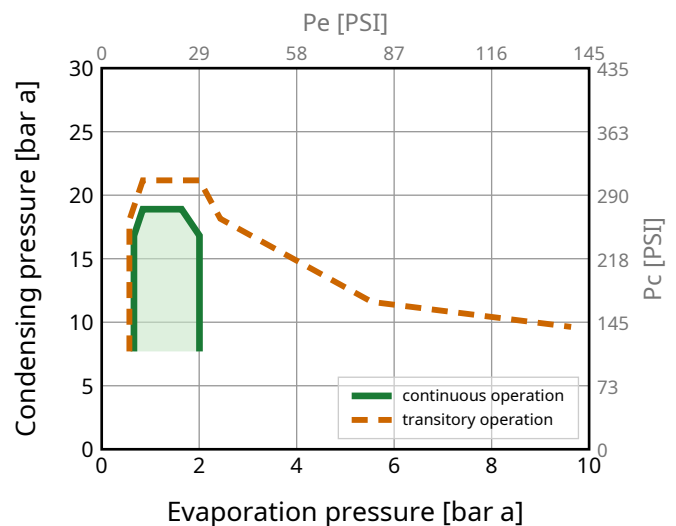
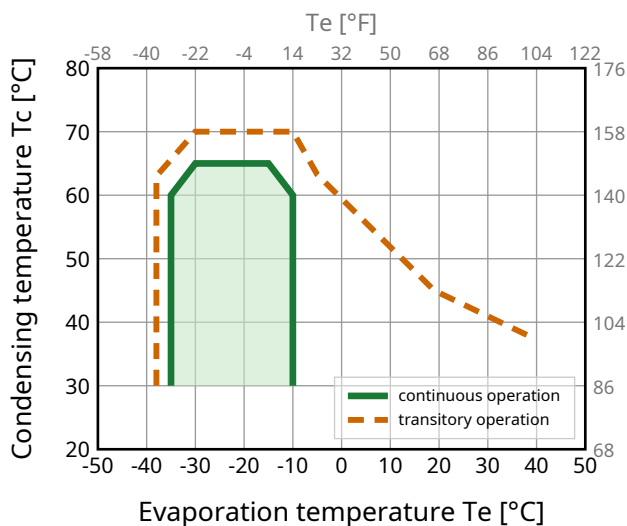
Components

- . terminal board (PTC, 4.8mm, K100) ZC FC
- . run capacitor (4 μ F, 4.8/6, 3mm) cap. 4 μ F
- . motor protector BDG AE 15 BU x AE15BUX
- . cover + clamp + screws (Nr. 4ZN) 16168000

Alternative components

- . terminal board (PTC, 6.3mm, K100) DC FC
- . run capacitor (4 μ F, 4.8/6, 3mm) cap. 4 μ F
- . motor protector BDG AE 15 BU x AE15BUX
- . cover + clamp + screws (Nr. 4ZN) 16168000

Operation Pressure Range



Model
GTK55AT

Configuration 1

Sales code:
CDO00153

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	170	579	146	1.55	5.28	110	0.63	3.29	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	124	423	107	1.19	4.06	104	0.61	2.96	CECOMAF LBP
-35 -31	40 104	20 68	40 104	83	284	72	1.08	3.69	77	0.53	1.82	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	141	481	121	1.30	4.42	109	0.63	3.70	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	187	638	161	1.77	6.03	106	0.62	3.63	AHAM LBP
-25 -13	45 113	32 89.6	45 113	149	508	128	1.44	4.93	103	0.61	3.22	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	76	260	66	0.98	3.36	77	0.53	1.64
-30	-22	110	377	95	1.23	4.19	90	0.56	2.38
-25	-13	149	508	128	1.44	4.93	103	0.61	3.22
-20	-4	194	660	166	1.66	5.65	117	0.66	4.20
-15	5	246	838	211	1.88	6.42	130	0.71	5.34
-10	14	307	1047	264	2.14	7.29	144	0.76	6.70

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

-35	-31	55	188	47	0.73	2.49	76	0.52	1.31
-30	-22	88	301	76	0.99	3.37	89	0.56	2.10
-25	-13	124	423	107	1.19	4.06	104	0.61	2.96
-20	-4	164	561	141	1.37	4.66	120	0.67	3.93
-15	5	211	719	181	1.54	5.25	137	0.72	5.06
-10	14	264	902	227	1.72	5.88	153	0.78	6.38

Model
GTK55AT

Configuration 2

Sales code:
CDO00153

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))	5.7 A
Cut in current (U(N))	11.1 A

Ambient/ machine room temperatures minimum /maximum

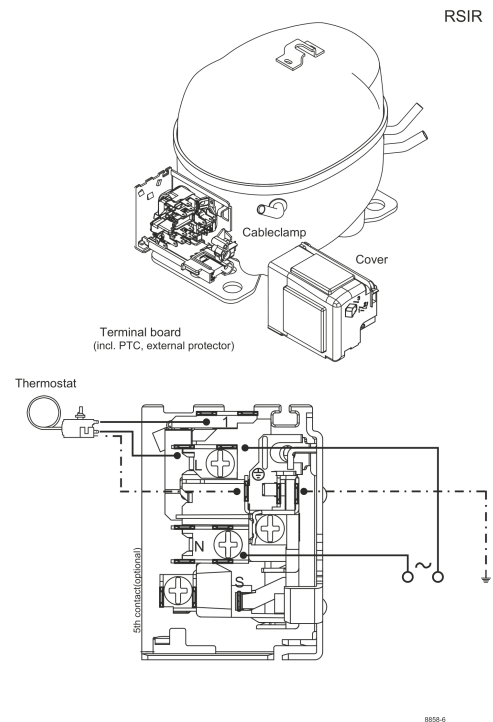
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



[View full size](#)

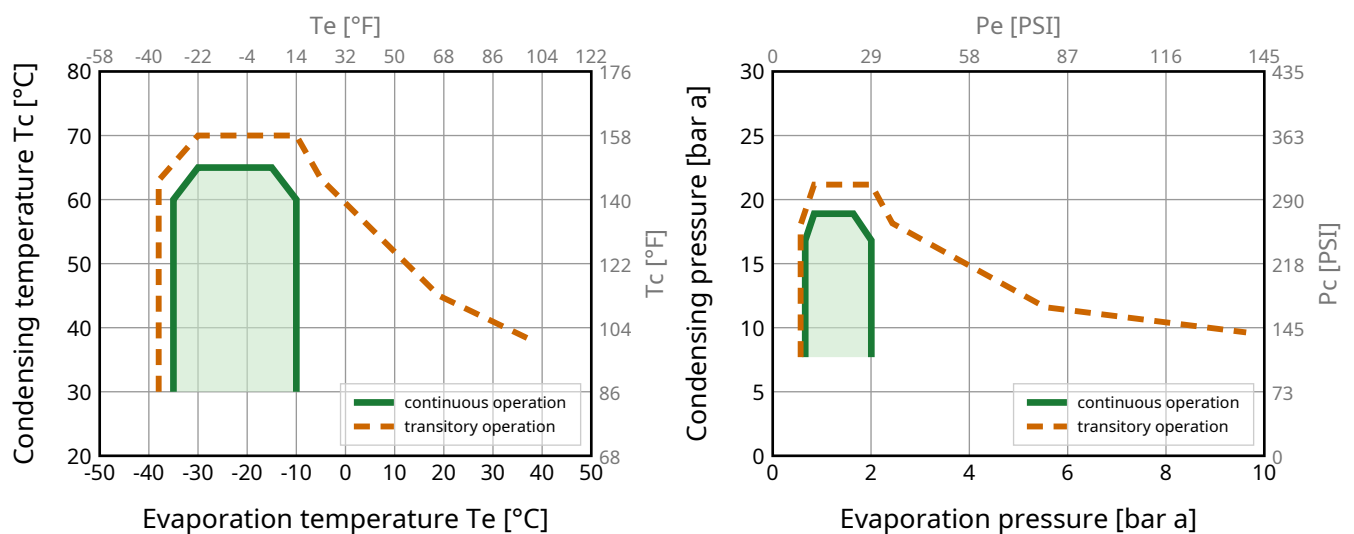
Components

- . terminal board (PTC,4.8mm,K100) ZC FC
- . motor protector BDG AE 15 BU x AE15BUX
- . cover + clamp + screws (Nr. 4ZN) 16168000

Alternative components

- . terminal board (PTC,6.3mm,K100) DC FC
- . motor protector BDG AE 15 BU x AE15BUX
- . cover + clamp + screws (Nr. 4ZN) 16168000

Operation Pressure Range



Model
GTK55AT

Configuration 2

Sales code:
CDO00153

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	170	579	146	1.48	5.04	115	0.88	3.29	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	124	423	107	1.13	3.87	109	0.87	2.96	CECOMAF LBP
-35 -31	40 104	20 68	40 104	83	284	72	1.02	3.50	81	0.80	1.82	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	141	481	121	1.24	4.22	114	0.88	3.70	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	187	638	161	1.68	5.72	111	0.89	3.63	AHAM LBP
-25 -13	45 113	32 89.6	45 113	149	508	128	1.37	4.69	108	0.87	3.22	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	76	260	66	0.94	3.19	82	0.80	1.64
-30	-22	110	377	95	1.17	3.99	94	0.83	2.38
-25	-13	149	508	128	1.37	4.69	108	0.87	3.22
-20	-4	193	660	166	1.58	5.38	123	0.91	4.19
-15	5	246	838	211	1.79	6.11	137	0.95	5.34
-10	14	307	1046	264	2.03	6.93	151	0.98	6.70

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

-35	-31	55	188	47	0.69	2.35	80	0.80	1.31
-30	-22	88	301	76	0.94	3.21	94	0.83	2.10
-25	-13	124	423	107	1.13	3.87	109	0.87	2.96
-20	-4	164	561	141	1.30	4.45	126	0.91	3.93
-15	5	211	719	181	1.47	5.01	143	0.96	5.05
-10	14	264	901	227	1.64	5.60	161	1.00	6.37