

Model

Designation	GTK55AT	200-240V/50Hz 1~	Sales code:	CDO00153
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a
Oil viscosity	10,4cSt	Displacement	5,6cm ³ / 0,34cu.in
Oil quantity	170cm ³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit			
Free gas volume comp.	1560cm ³ / 52,7fl.oz		
Weight	7,66kg / 16,9lbs		
Motor protection	external		
Winding resistance main	16Ω (at 25°C)		
Winding resistance aux	23Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with GTK55AT

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

Applications with GTK55AT

	Conf. 1	Conf. 2
Refrigerant	R134a	R134a
Application	LBP	LBP
System cooling	static	static
Hot gas defrost	-/-	-/-
Long interval pull down	-/-	-/-

Electrical data - Configurations with GTK55AT

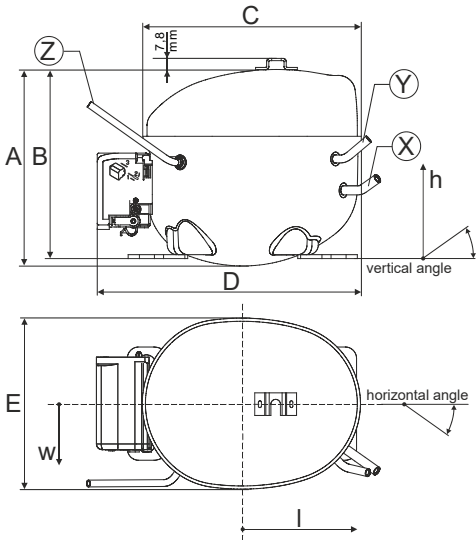
	Conf. 1	Conf. 2
Starting device type	PTC	PTC
Run capacitor	4μF	-/-
Start capacitor	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))	5,7A	5,7A
RLA (rated load amps / 1s/ U(N))		
Cut in current (U(N))	11,1A	11,1A

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Compressor dimensions

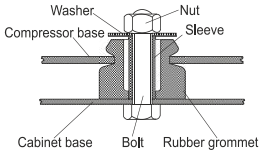
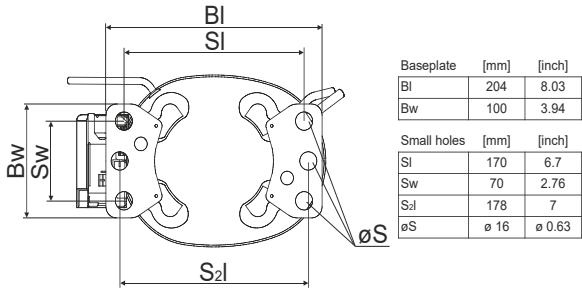
Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 6,1-6,2	øi 5,1-5,2	øo 5,92-6,08
(i:inside, o:outside)	[in]	øi 0,24-0,24	øi 0,2-0,2	øo 0,23-0,24
Material		copper	copper	copper
Horizontal angle	±2°	45°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	120/72/62	112/106/62	-140/136/70
	[in]	4,7/2,8/2,4	4,4/4,2/2,4	-5,5/5,4/2,8
Straight tube l.	[mm]	14	14	75
	[in]	0,5	0,5	3

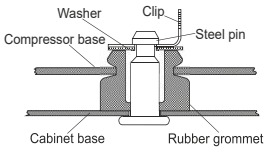


Compressor fixation

Bolt joint



Snap-on



Mounting accessories

- '4ZN' with rubber grommet
- '4ZN' with rubber grommet and sleeve for M6
- Bolt joint kit
- '4ZN' with Snap on kit

- order code
- 772N
- 768N
- 4ZN + 118-1917 (18)
- 776N

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.

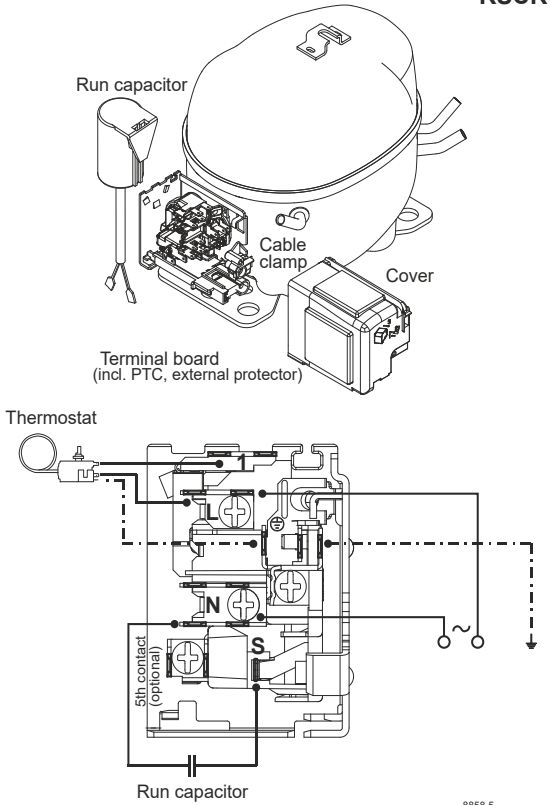
Provision for PE Grounding is located at the PE Stamp on the compressor

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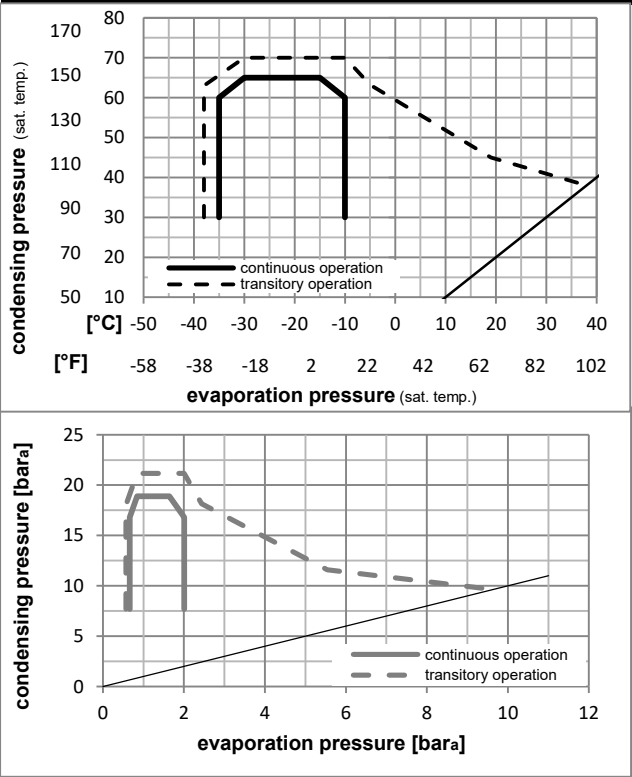
Configuration	Electrical accessories / wiring diagram			
Motor configuration	RSCR	RSCR		
Power supply (nominal)	200-240V/50Hz 1~			
Refrigerant	R134a			
Application	LBP			
Voltage range	170-264V			
Starting torque	LST			
Approvals	VDE			
	EAC			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



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

Model

Designation **GTK55AT** **200-240V/50Hz** Conf. 1 Sales code: **CDO00153**

Optimization + standard conditions

R134a, 200V/50Hz, RSCR, static, VDE, EAC

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Performance tables

R134a, 200V/50Hz, RSCR, static, VDE, EAC

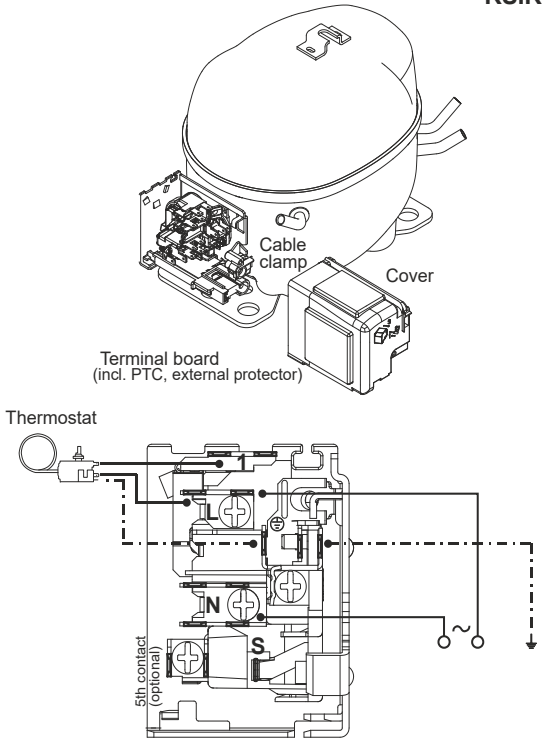
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	76,3	260	65,6	0,99	3,37	0,85	77,4	0,53	1,65
cond. pressure	-30	-22	110,4	377	95,0	1,23	4,20	1,06	89,8	0,56	2,39
pc= 45/113	-25	-13	148,9	509	128,2	1,44	4,93	1,24	103,2	0,61	3,23
return gas temp.	-23	-10	163,3	558	140,6	1,52	5,17	1,30	107,8	0,62	3,54
RGT= 32/90	-20	-4	193,5	661	166,5	1,66	5,65	1,42	116,9	0,66	4,20
liquid temp	-15	5	245,7	839	211,4	1,88	6,43	1,62	130,5	0,71	5,36
Tliq= 45/113	-10	14	306,9	1048	264,1	2,14	7,30	1,84	143,7	0,76	6,72
[°C / °F]	-35	-31	55,2	189	47,5	0,73	2,49	0,63	75,8	0,52	1,31
cond. pressure	-30	-22	88,2	301	75,9	0,99	3,37	0,85	89,3	0,56	2,10
pc= 55/131	-25	-13	124,1	424	106,8	1,19	4,06	1,02	104,3	0,61	2,97
return gas temp	-23	-10	137,2	469	118,1	1,25	4,27	1,08	109,7	0,63	3,28
RGT= 32/90	-20	-4	164,4	561	141,5	1,37	4,67	1,18	120,3	0,67	3,94
liquid temp	-15	5	210,7	720	181,3	1,54	5,26	1,33	136,8	0,73	5,07
Tliq= 55/131	-10	14	264,5	903	227,6	1,72	5,89	1,48	153,4	0,78	6,40

Model				
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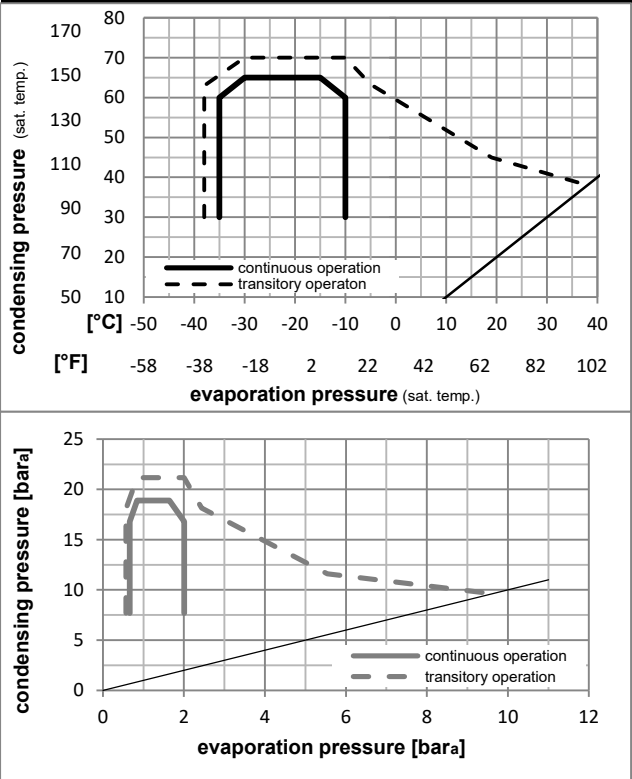
Configuration	Electrical accessories / wiring diagram			
Motor configuration	RSIR	RSIR		
Power supply (nominal)	200-240V/50Hz 1~			
Refrigerant	R134a			
Application	LBP			
Voltage range	170-264V			
Starting torque	LST			
Approvals	VDE			
	EAC			

Ambient/ machine room temperatures minimum /maximum

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Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components	
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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

Model

Designation **GTK55AT** **200-240V/50Hz** Conf. 2 Sales code: **CDO00153**

Optimization + standard conditions

R134a, 200V/50Hz, RSIR, static, VDE, EAC

Evaporating pressure (saturation temperature)		Condensing pressure (saturation temperature)		Return gas temp.		Liquid temp.		Cooling capacity		COP	EER	Power consumption			ASHRAE LBP
												Current consumption		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m			
[°C]	-23	54	32	32	169,6	579	146,0	1,48	5,05	1,27	114,8	0,88	3,29		
[°F]	-10	130	90	90											

[°C]	-25	55	32	55	124,1	424	106,8	1,13	3,87	0,98	109,4	0,87	2,97	cecomaf LBP
[°F]	-13	131	90	131										

[°C]	-35	40	20	40	83,2	284	71,6	1,02	3,50	0,88	81,3	0,80	1,83	EN12900 LBP
[°F]	-31	104	68	104										

[°C]	-23	49	4,4	49	140,1	479	120,6	1,23	4,19	1,06	114,1	0,88	3,70	ARI540 LBP
[°F]	-10	120	40	120										

[°C]	-23	41	32	32	186,8	638	160,7	1,68	5,73	1,44	111,4	0,88	3,63	AHAM LBP
[°F]	-10	105	90	90										

[°C]	-35	45	32	45	76,3	261	65,7	0,94	3,19	0,80	81,6	0,80	1,65	opt
[°F]	-31	113	90	113										

Performance tables

R134a, 200V/50Hz, RSIR, static, VDE, EAC

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	76,3	261	65,7	0,94	3,19	0,80	81,6	0,80	1,65
cond. pressure	-30	-22	110,4	377	95,0	1,17	3,99	1,01	94,5	0,83	2,39
pc= 45/113	-25	-13	148,9	509	128,2	1,37	4,69	1,18	108,4	0,87	3,23
return gas temp.	-23	-10	163,3	558	140,5	1,44	4,93	1,24	113,2	0,88	3,54
RGT= 32/90	-20	-4	193,4	661	166,5	1,58	5,38	1,36	122,7	0,91	4,20
liquid temp	-15	5	245,5	838	211,3	1,79	6,12	1,54	137,1	0,95	5,35
Tliq= 45/113	-10	14	306,6	1047	263,9	2,03	6,94	1,75	150,9	0,98	6,71
[°C / °F]	-35	-31	55,2	188	47,5	0,69	2,36	0,59	79,9	0,80	1,31
cond. pressure	-30	-22	88,2	301	75,9	0,94	3,21	0,81	93,8	0,83	2,10
pc= 55/131	-25	-13	124,1	424	106,8	1,13	3,87	0,98	109,4	0,87	2,97
return gas temp	-23	-10	137,2	469	118,1	1,19	4,08	1,03	114,9	0,88	3,28
RGT= 32/90	-20	-4	164,3	561	141,4	1,30	4,45	1,12	126,1	0,91	3,94
liquid temp	-15	5	210,6	719	181,2	1,47	5,01	1,26	143,4	0,96	5,07
Tliq= 55/131	-10	14	264,2	902	227,4	1,64	5,61	1,41	160,9	1,00	6,39