

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

Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a
Oil viscosity	9,7cST	Displacement	5,6cm³ / 0,34cu.in
Oil quantity	165cm³ / 5,6fl.oz	Compressors on pallet	100
Refr. charge - tech. limit			
Free gas volume comp.	1560cm³ / 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
Motorconfiguration	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	-/-	-/-

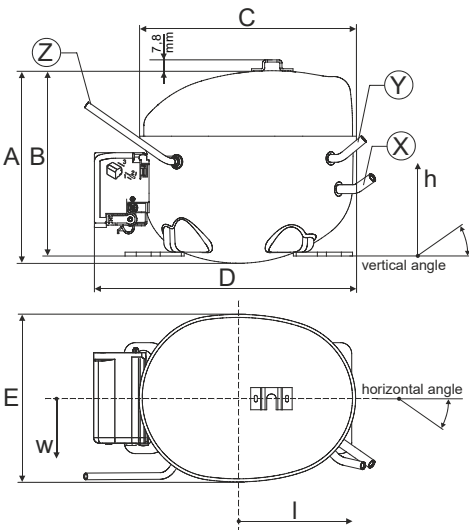
Electrical data - Configurations with GTK55AT

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

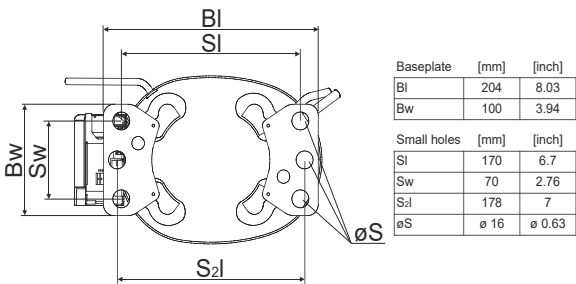
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Compressor dimensions

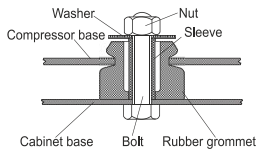
Housing	A Height	174mm / 6,85in	
	B Height	167mm / 6,57in	
	C Length shell	194mm / 7,64in	
	D Length w. cover	238mm / 9,37in	
	E Width	151mm / 5,94in	
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 6,1-6,2	øi 5,1-5,2	øo 5,92-6,08
(i:inside, o:outside) [in]	øi 0,24-0,24	øi 0,2-0,2	øo 0,23-0,24
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



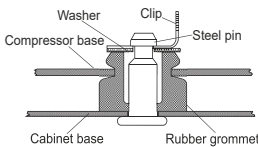
Compressor fixation



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.

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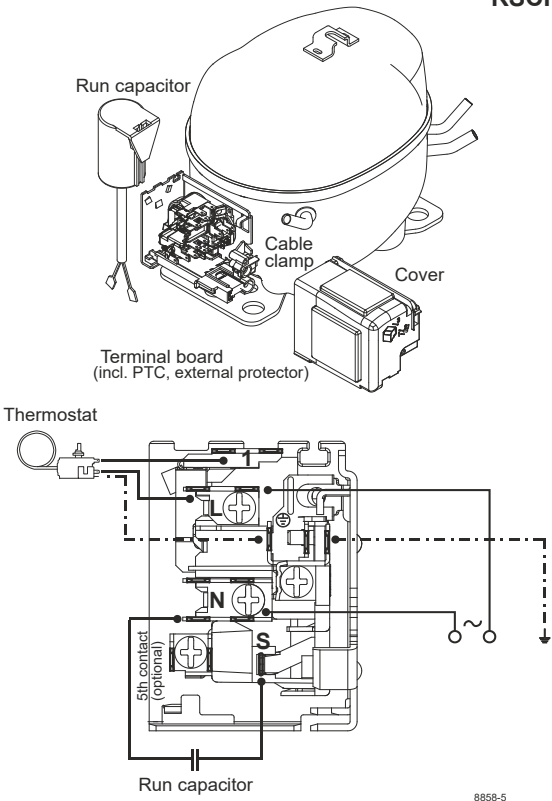
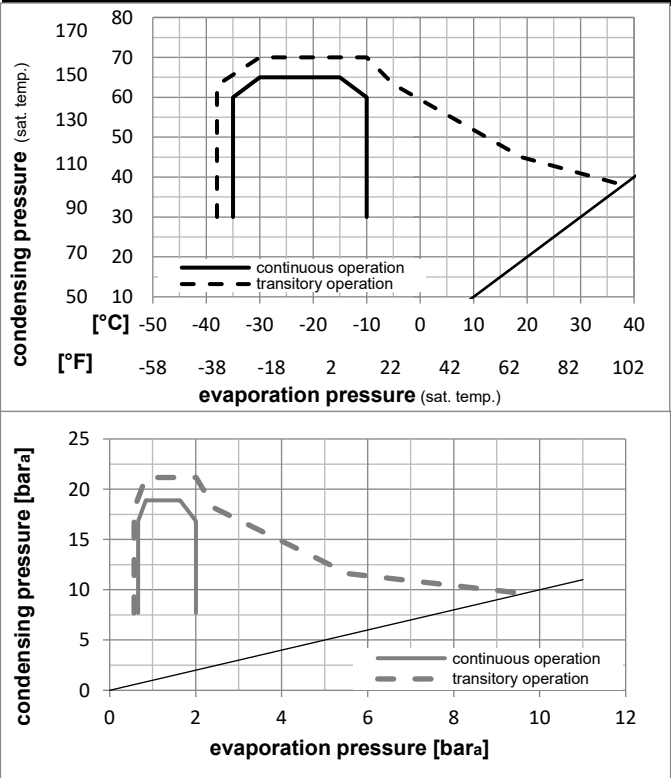
Configuration		Electrical accessories / wiring diagram	
Motorconfiguration	RSCR	RSCR	
Power supply (nominal)	200-240V/50Hz 1~		
Refrigerant	R134a		
Application			
Voltage range	170-264V		
Starting torque	LST		
Approvals	VDE		
	EAC		

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 Limits

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

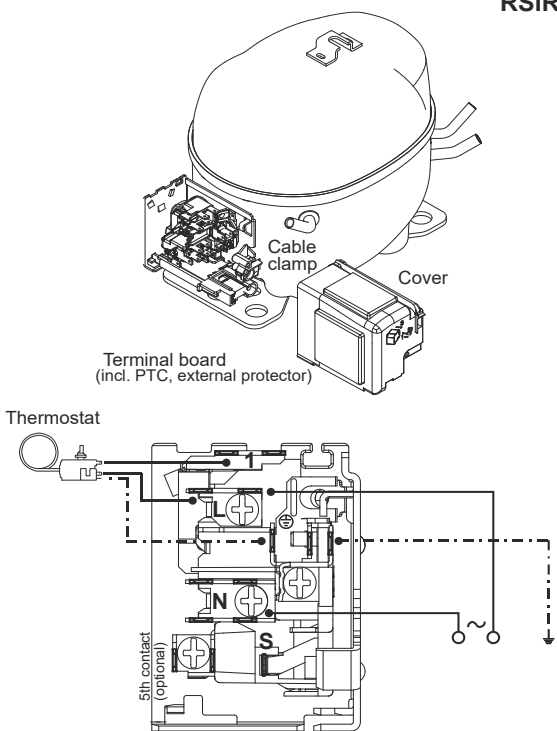
Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
											Current consumption			
											Ref. mass flow			

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

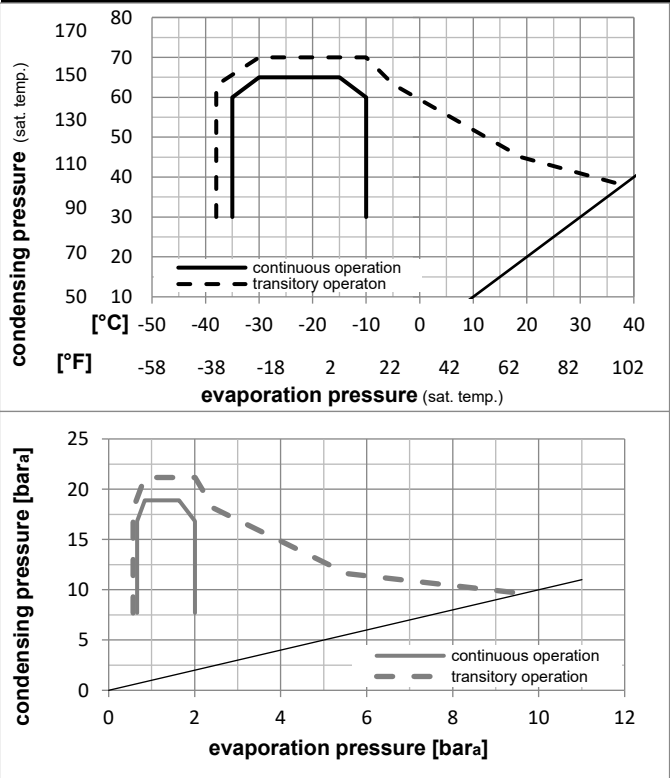
Model				
Designation	GTK55AT	200-240V/50Hz	Conf. 2	Sales code: CDO00153

Configuration		Electrical accessories / wiring diagram	
Motorconfiguration	RSIR	RSIR  Terminal board (incl. PTC, external protector) Cable clamp Cover Thermostat 5th contact (optional) N S	
Power supply (nominal)	200-240V/50Hz 1~		
Refrigerant	R134a		
Application			
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
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Compressor cooling:	static

Operation Limits

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)										Power consumption				
Return gas temp.										Current consumption				
Liquid temp.										Ref. mass flow				
Cooling capacity					COP			EER		P1	I	ṁ		
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	169,6	579	146,0	1,48	5,05	1,27	114,8	0,88	3,29	ASHRAE LBP
[°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		