

Model

Designation	GTK70AT	200-240V/50Hz 1~	Sales code:	CDO00154
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a
Oil viscosity	10,4cSt	Displacement	6,64cm ³ / 0,41cu.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	9,65kg / 21,3lbs		
Motor protection	external		
Winding resistance main	11,9Ω (at 25°C)		
Winding resistance aux	11,8Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with GTK70AT

	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 GTK70AT

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

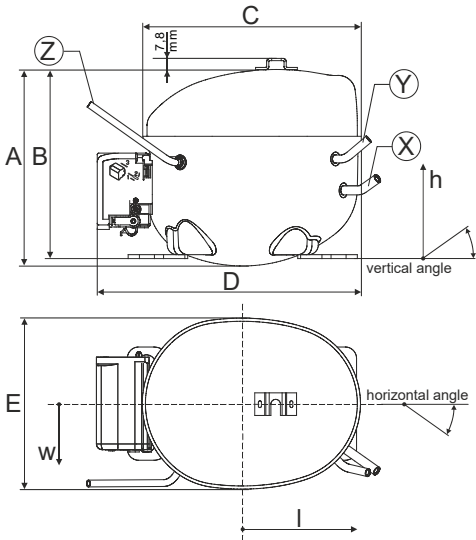
Electrical data - Configurations with GTK70AT

	Conf. 1	Conf. 2
Starting device type	PTC	PTC
Run capacitor	4μF	-/-
Start capacitor	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))	7,3A	7,3A
RLA (rated load amps / 1s/ U(N))	0,6A	0,6A
Cut in current (U(N))	11,1A	11,1A

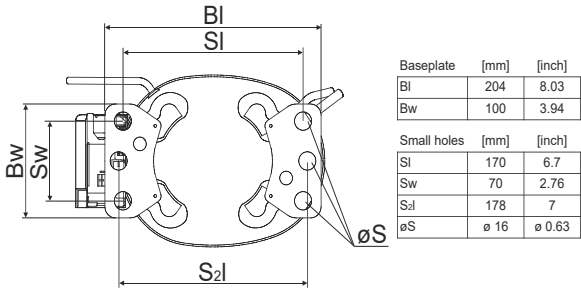
Model			
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Compressor dimensions

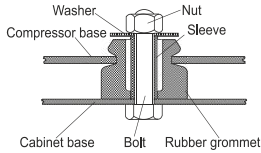
Housing	A Height	174mm / 6,85in	
	B Height	167mm / 6,57in	
	C Length shell	194mm / 7,64in	
	D Length w. cover	238mm / 9,37in	
	E Width	151mm / 5,94in	
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 6,1-6,2	øi 5,1-5,2	øo 5,92-6,08
(i:inside, o:outside) [in]	øi 0,24-0,24	øi 0,2-0,2	øo 0,23-0,24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



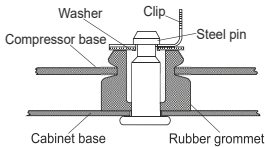
Compressor fixation



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.

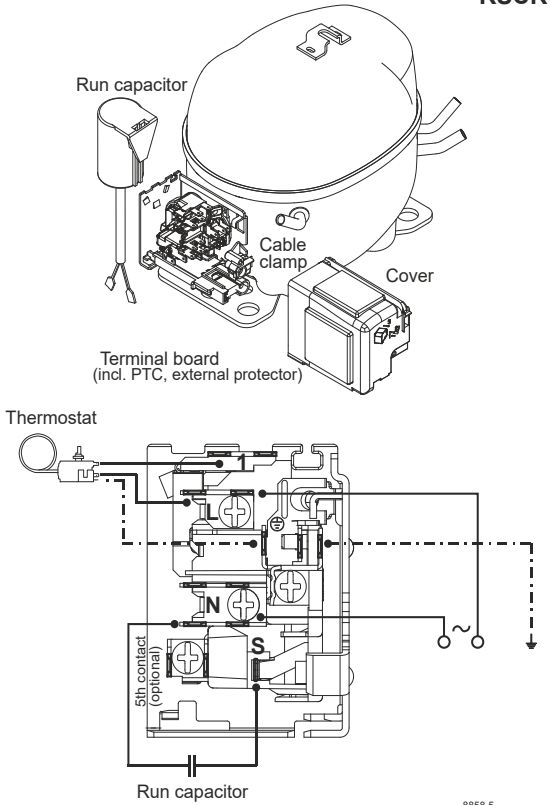
Provision for PE Grounding is located at the PE Stamp on the compressor

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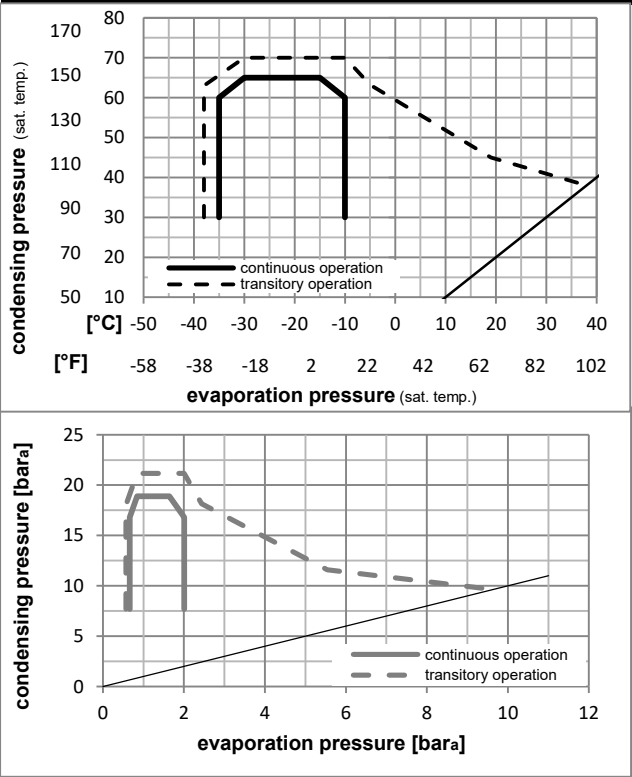
Configuration	Electrical accessories / wiring diagram				
Motor configuration	RSCR	RSCR			
Power supply (nominal)	200-240V/50Hz 1~				
Refrigerant	R134a				
Application	LBP				
Voltage range	170-264V				
Starting torque	LST				
Approvals	VDE				
	EAC				

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

Model

Designation **GTK70AT** **200-240V/50Hz** Conf. 1 Sales code: **CDO00154**

Optimization + standard conditions

R134a, 200V/50Hz, RSCR, 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	m			
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	204,5	698	176,0	1,60	5,46	1,37	128,0	0,60	3,97	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	150,8	515	129,8	1,23	4,19	1,06	122,8	0,57	3,61	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	103,8	354	89,3	1,14	3,89	0,98	91,2	0,44	2,28	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	167,6	572	144,2	1,35	4,60	1,16	124,5	0,60	4,43	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	221,8	757	190,9	1,89	6,44	1,62	117,6	0,57	4,31	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	97,5	333	83,9	1,05	3,58	0,90	93,0	0,46	2,10	opt
[°F]	-31	113	90	113										

Performance tables

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

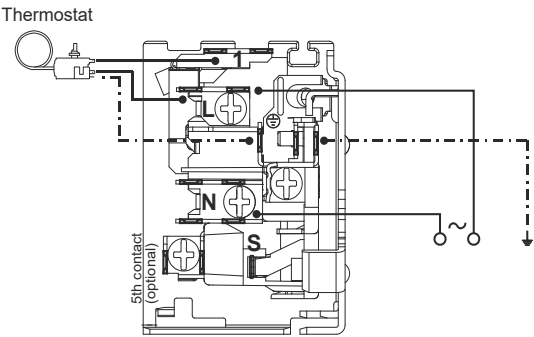
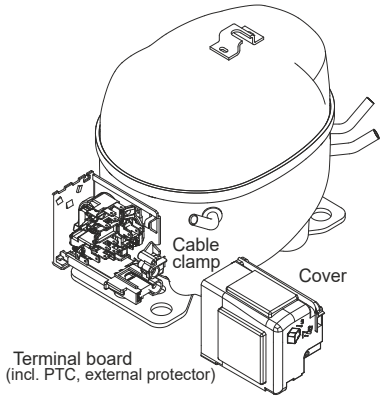
	pe		Cooling capacity			COP			EER			P1			I			m		
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	97,5	333	83,9	1,05	3,58	0,90	93,0	0,46	2,10	93,0	0,46	2,10	93,0	0,46	2,10	93,0	0,46	2,10
cond. pressure	-30	-22	134,3	459	115,6	1,28	4,39	1,11	104,5	0,51	2,90	104,5	0,51	2,90	104,5	0,51	2,90	104,5	0,51	2,90
pc= 45/113	-25	-13	177,9	607	153,1	1,52	5,19	1,31	117,0	0,57	3,85	117,0	0,57	3,85	117,0	0,57	3,85	117,0	0,57	3,85
return gas temp.	-23	-10	194,5	664	167,4	1,60	5,47	1,38	121,4	0,59	4,22	121,4	0,59	4,22	121,4	0,59	4,22	121,4	0,59	4,22
RGT= 32/90	-20	-4	229,6	784	197,6	1,76	6,02	1,52	130,2	0,64	4,99	130,2	0,64	4,99	130,2	0,64	4,99	130,2	0,64	4,99
liquid temp	-15	5	290,9	993	250,3	2,02	6,90	1,74	143,9	0,71	6,34	143,9	0,71	6,34	143,9	0,71	6,34	143,9	0,71	6,34
Tliq= 45/113	-10	14	363,1	1240	312,5	2,30	7,85	1,98	158,0	0,79	7,95	158,0	0,79	7,95	158,0	0,79	7,95	158,0	0,79	7,95
[°C / °F]	-35	-31	78,2	267	67,3	0,86	2,92	0,74	91,3	0,43	1,86	91,3	0,43	1,86	91,3	0,43	1,86	91,3	0,43	1,86
cond. pressure	-30	-22	111,8	382	96,2	1,05	3,58	0,90	106,7	0,50	2,67	106,7	0,50	2,67	106,7	0,50	2,67	106,7	0,50	2,67
pc= 55/131	-25	-13	150,8	515	129,8	1,23	4,19	1,06	122,8	0,57	3,61	122,8	0,57	3,61	122,8	0,57	3,61	122,8	0,57	3,61
return gas temp	-23	-10	165,6	565	142,5	1,29	4,40	1,11	128,4	0,60	3,96	128,4	0,60	3,96	128,4	0,60	3,96	128,4	0,60	3,96
RGT= 32/90	-20	-4	196,7	672	169,3	1,41	4,82	1,21	139,4	0,66	4,72	139,4	0,66	4,72	139,4	0,66	4,72	139,4	0,66	4,72
liquid temp	-15	5	250,9	857	215,9	1,61	5,48	1,38	156,2	0,74	6,04	156,2	0,74	6,04	156,2	0,74	6,04	156,2	0,74	6,04
Tliq= 55/131	-10	14	314,6	1075	270,8	1,82	6,20	1,56	173,2	0,83	7,61	173,2	0,83	7,61	173,2	0,83	7,61	173,2	0,83	7,61

Model				
Designation	GTK70AT	200-240V/50Hz	Conf. 2	Sales code: CDO00154

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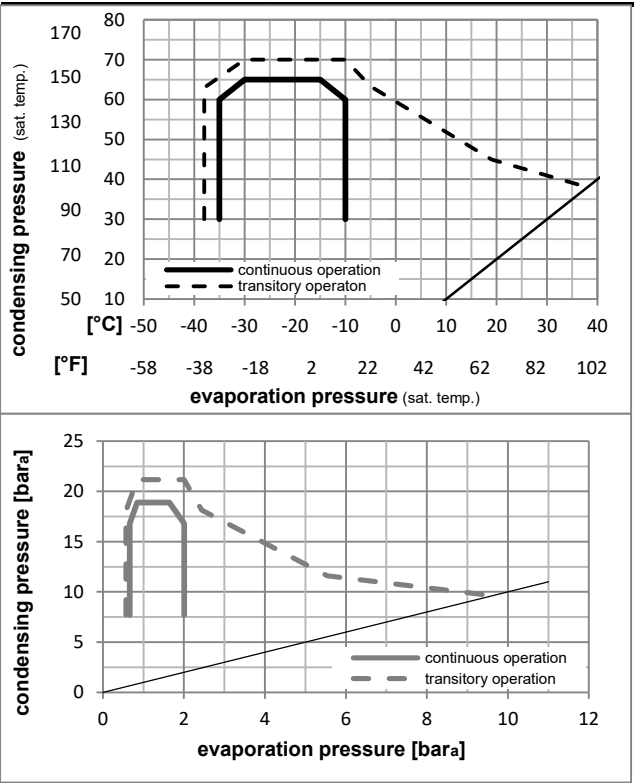
Motor configuration	RSIR
Power supply (nominal)	200-240V/50Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	170-264V
Starting torque	LST
Approvals	VDE
	EAC

RSIR



Ambient/ machine room temperatures minimum /maximum	
Ambient temperature range:	10 - 43°C / 50 - 110°F
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Compressor cooling:	static

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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			Current consumption			Ref. mass flow		
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]
[°C]	-23	54	32	32	204,6	699	176,1	1,52	5,18	1,31	134,7	0,63	3,97	ASHRAE LBP																
[°F]	-10	130	90	90																										
[°C]	-25	55	32	55	150,8	515	129,8	1,17	3,99	1,00	129,2	0,60	3,61	cecomaf LBP																
[°F]	-13	131	90	131																										
[°C]	-35	40	20	40	103,8	355	89,4	1,09	3,71	0,94	95,5	0,45	2,28	EN12900 LBP																
[°F]	-31	104	68	104																										
[°C]	-23	49	4,4	49	167,6	573	144,3	1,28	4,37	1,10	131,0	0,62	4,43	ARI540 LBP																
[°F]	-10	120	40	120																										
[°C]	-23	41	32	32	221,8	758	190,9	1,79	6,12	1,54	123,9	0,57	4,31	AHAM LBP																
[°F]	-10	105	90	90																										
[°C]	-35	45	32	45	97,5	333	83,9	1,00	3,42	0,86	97,4	0,45	2,10	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]	[W]	[A]	[kg/h]	[kg/h]
[°C / °F]	-35	-31	97,5	333	83,9	1,00	3,42	0,86	97,4	0,45	2,10				
cond. pressure	-30	-22	134,3	459	115,6	1,22	4,18	1,05	109,8	0,50	2,90				
pc= 45/113	-25	-13	177,9	608	153,1	1,44	4,93	1,24	123,1	0,57	3,85				
return gas temp.	-23	-10	194,5	664	167,4	1,52	5,20	1,31	127,8	0,59	4,22				
RGT= 32/90	-20	-4	229,6	784	197,6	1,67	5,72	1,44	137,1	0,65	4,99				
liquid temp	-15	5	290,9	993	250,3	1,92	6,55	1,65	151,7	0,73	6,34				
Tliq= 45/113	-10	14	363,1	1240	312,5	2,18	7,45	1,88	166,5	0,82	7,95				
[°C / °F]	-35	-31	78,2	267	67,3	0,82	2,80	0,70	95,5	0,45	1,86				
cond. pressure	-30	-22	111,8	382	96,2	1,00	3,41	0,86	112,0	0,52	2,67				
pc= 55/131	-25	-13	150,8	515	129,8	1,17	3,99	1,00	129,2	0,60	3,61				
return gas temp	-23	-10	165,6	566	142,5	1,23	4,19	1,05	135,1	0,64	3,96				
RGT= 32/90	-20	-4	196,7	672	169,3	1,34	4,58	1,15	146,8	0,70	4,72				
liquid temp	-15	5	250,8	857	215,9	1,52	5,20	1,31	164,7	0,80	6,04				
Tliq= 55/131	-10	14	314,6	1074	270,7	1,72	5,88	1,48	182,6	0,90	7,61				