

Model

Designation	HXK13AT	200-240V/50Hz 1~	Sales code:	16507700
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cSt	Displacement	12,5cm ³ / 0,76cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1560cm ³ / 52,7fl.oz		
Weight	8,6kg / 19lbs		
Motor protection	external		
Winding resistance main	12,4Ω (at 25°C)		
Winding resistance aux	15,3Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HXK13AT

	Conf. 1
Motor configuration	RSCR
Power supply (nominal)	200-240V/50Hz
Number of phases	1
Voltage range	180-264V
Approvals	VDE
Starting torque	LST
Note	Various options of connectors are possible - please contact SECOP-Sales.

Applications with HXK13AT

	Conf. 1
Refrigerant	R600a
Application	LBP
System cooling	static
Hot gas defrost	-/-
Long interval pull down	-/-

Electrical data - Configurations with HXK13AT

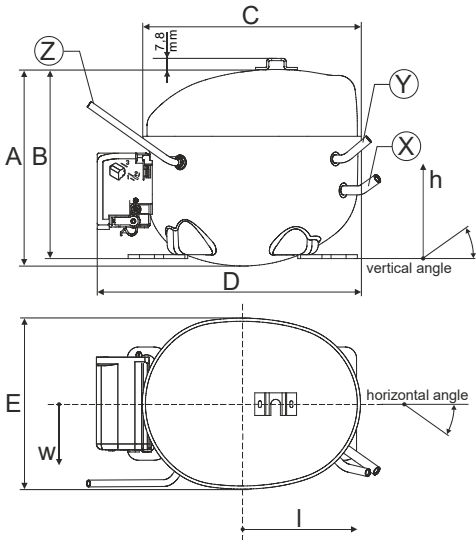
	Conf. 1
Starting device type	PTC
Run capacitor	4μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	8,2A
RLA (rated load amps / 1s/ U(N))	
Cut in current (U(N))	16,4A

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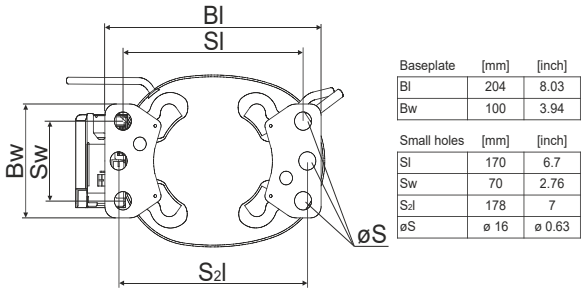
Compressor dimensions

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

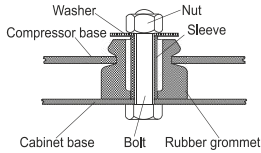
Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 6,1-6,2	øi 5,1-5,2	øo 5,92-6,08
(i:inside, o:outside)	[in]	øi 0,24-0,24	øi 0,2-0,2	øo 0,23-0,24
Material		copper	copper	copper
Horizontal angle	±2°	45°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	120/72/62	112/106/62	-140/136/70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



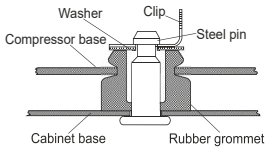
Compressor fixation



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

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

Housing with dip-tray fixture (omega bracket).

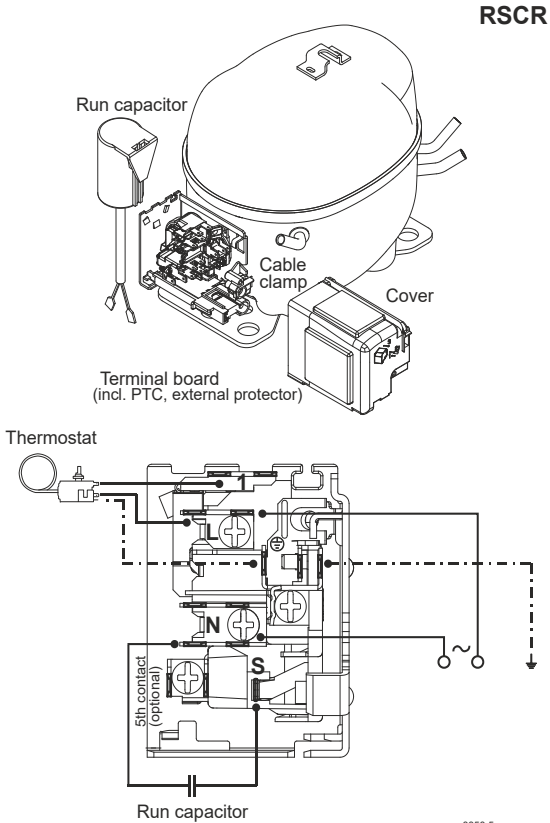
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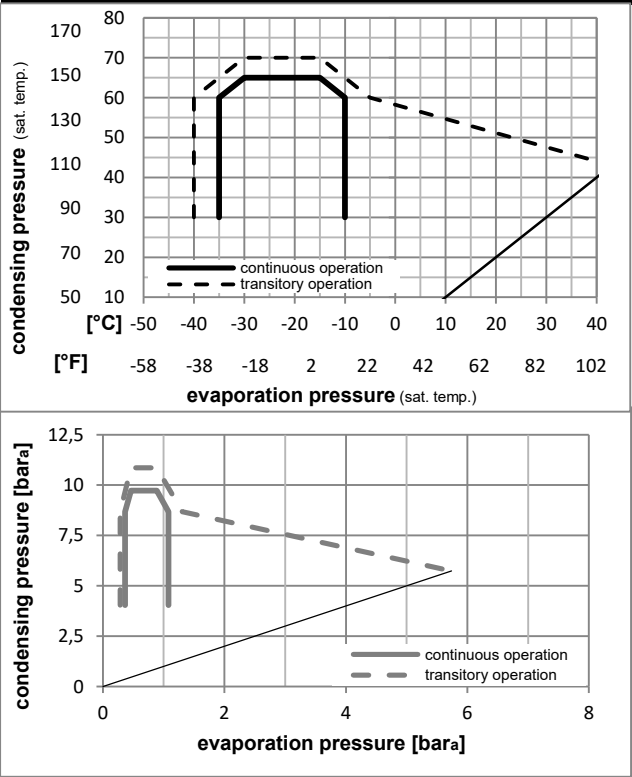
Configuration	Electrical accessories / wiring diagram				
Motor configuration	RSCR				
Power supply (nominal)	200-240V/50Hz 1~				
Refrigerant	R600a				
Application	LBP				
Voltage range	180-264V				
Starting torque	LST				
Approvals	VDE				

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)	16425900
.	run capacitor (4µF, 4.8mm)	10693001
b	cover terminal board	10636401
.	cable clamp	16058100
.	screw - uni6954	10636000
.	screw - uni6954	10636200
Alternative components		
.	terminal board (PTC, 6.3mm)	16425700
.	run capacitor (4µF, 6.3mm)	15186801
.	screw uni en iso 4757	10641201

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Optimization + standard conditions

R600a, 200V/50Hz, RSCR, static, VDE

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																																																																														
Return gas temp.					Current consumption						Ref. mass flow																																																																														
Liquid temp.					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					226,3					773					194,7					1,65					5,63					1,42					137,4					0,74					2,43					ASHRAE LBP																			
[°F]					-10					130					90					90																																																																					
[°C]					-25					55					32					55					170,9					584					147,1					1,31					4,46					1,12					130,9					0,71					2,23					cecomaf LBP																			
[°F]					-13					131					90					131																																																																					
[°C]					-35					40					20					40					117,1					400					100,8					1,42					4,86					1,22					82,3					0,46					1,43					EN12900 LBP																			
[°F]					-31					104					68					104																																																																					
[°C]					-23					49					4,4					49					181,3					619					156,0					1,33					4,56					1,15					135,9					0,74					2,65					ARI540 LBP																			
[°F]					-10					120					40					120																																																																					
[°C]					-23					41					32					32					234,8					802					202,0					1,76					6,03					1,52					133,0					0,72					2,52					AHAM LBP																			
[°F]					-10					105					90					90																																																																					
[°C]					-35					45					32					45					113,1					386					97,4					1,31					4,48					1,13					86,3					0,48					1,34					opt																			
[°F]					-31					113					90					113																																																																					

Performance tables

R600a, 200V/50Hz, RSCR, static, VDE

	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	113,1	386	97,4	1,31	4,48	1,13	86,3	0,48	1,34
cond. pressure	-30	-22	149,3	510	128,5	1,39	4,74	1,19	107,5	0,59	1,77
pc= 45/113	-25	-13	192,9	659	166,0	1,51	5,15	1,30	127,8	0,70	2,30
return gas temp.	-23	-10	209,6	716	180,3	1,56	5,32	1,34	134,5	0,73	2,50
RGT= 32/90	-20	-4	244,9	836	210,8	1,66	5,67	1,43	147,5	0,80	2,92
liquid temp	-15	5	306,6	1047	263,8	1,83	6,26	1,58	167,4	0,90	3,66
Tliq= 45/113	-10	14	378,8	1294	326,0	2,02	6,89	1,74	187,8	1,00	4,54
[°C / °F]	-35	-31	95,7	327	82,4	0,99	3,37	0,85	97,0	0,54	1,25
cond. pressure	-30	-22	130,4	445	112,2	1,15	3,94	0,99	113,0	0,62	1,70
pc= 55/131	-25	-13	170,9	584	147,1	1,31	4,46	1,12	130,9	0,71	2,23
return gas temp	-23	-10	186,2	636	160,3	1,35	4,62	1,16	137,6	0,75	2,43
RGT= 32/90	-20	-4	218,3	746	187,9	1,44	4,93	1,24	151,4	0,82	2,85
liquid temp	-15	5	273,8	935	235,6	1,57	5,35	1,35	174,9	0,94	3,58
Tliq= 55/131	-10	14	338,2	1155	291,1	1,68	5,72	1,44	201,9	1,07	4,44