

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

Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	12,5cm³ / 0,76cu.in
Oil quantity	162cm³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1560cm³ / 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
Motorconfiguration	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

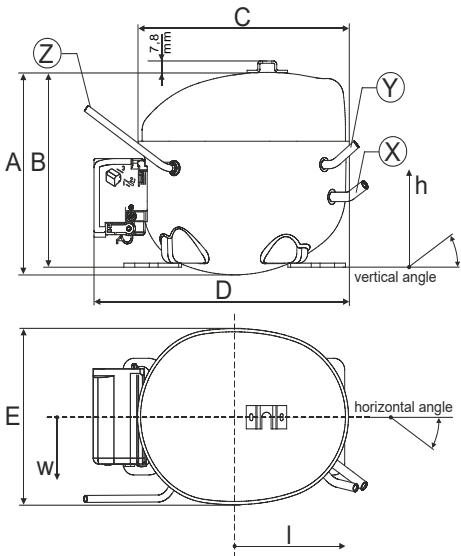
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Compressor dimensions

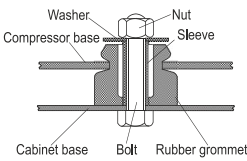
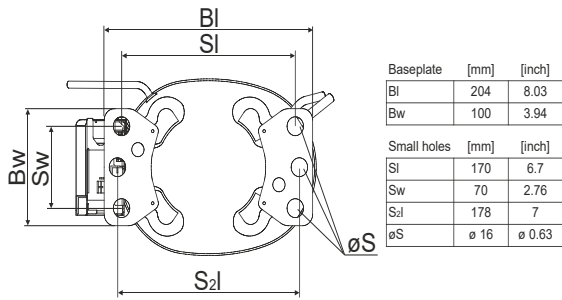
Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors	Suction X	Discharge Y	Process 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

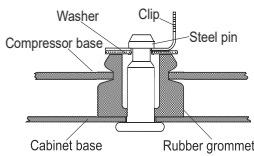


Compressor fixation

Bolt joint



Snap-on



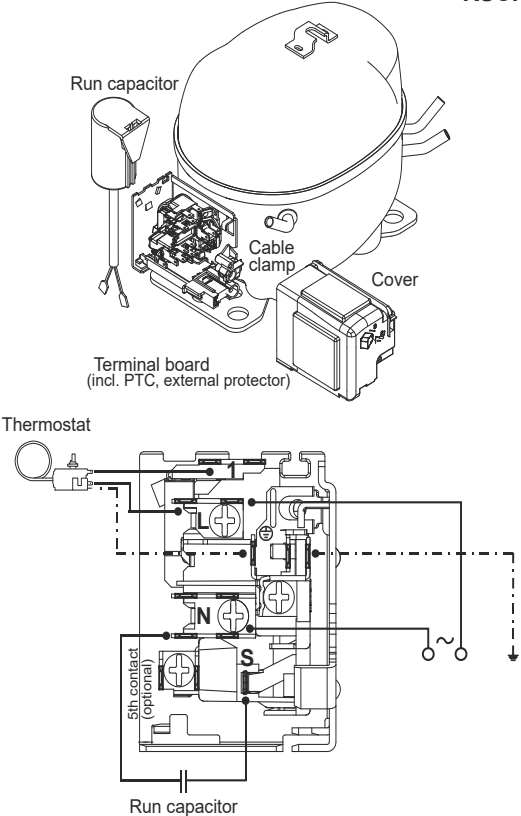
Mounting accessories

'4ZN' with rubber grommet	772N
'4ZN' with rubber grommet and sleeve for M6	768N
Bolt joint kit	4ZN + 118-1917 (18)
'4ZN' with Snap on kit	776N

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor
Housing with dip-tray fixture (omega bracket).
Various options of connectors are possible - please contact SECOP-Sales.

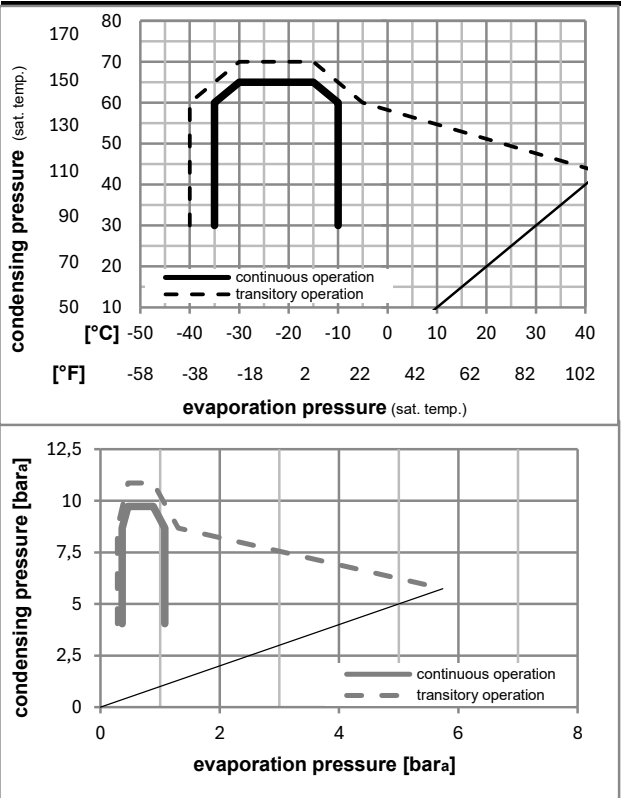
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Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	RSCR			
Power supply (nominal)	200-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	180-264V			
Starting torque	LST			
Approvals	VDE			

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	11341000	
. 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) Return gas temp. Liquid temp. Cooling capacity COP EER Power consumption P1 I Current consumption Ref. mass flow														
	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]				
[°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	