Technical Data Compressor

SECOP

Model

Designation	**HXK13AT**	**200-240V/50Hz 1~**	Sales code:	**CDO00222**

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.	1600cm³ / 54,1fl.oz		
Weight	8,9kg / 19,6lbs		
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.	120°C / 248°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	- / -

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

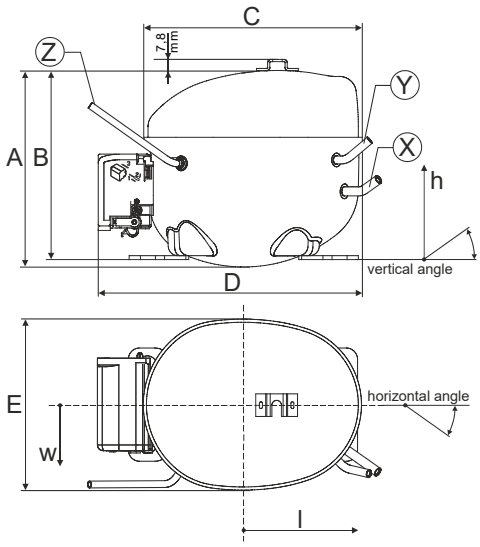
Model

Designation **HXK13AT** **200-240V/50Hz 1~** Sales code: **CDO00222**

Compressor dimensions

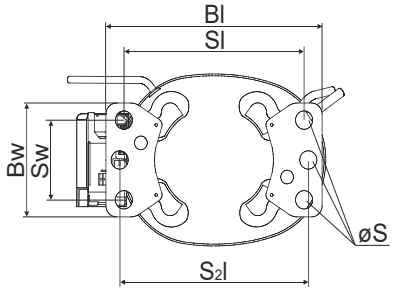
Housing

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	øi 4,3-4,6
(i:inside, o:outside)	[in]	øi 0,24-0,24	øi 0,2-0,2	øi 0,17-0,18
Material		copper	copper	copper
Horizontal angle	±2°	45°	13°	0°
Vertical angle	±2°	35°	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	12
	[in]	0,5	0,5	0,5

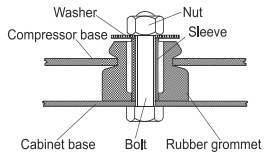
Compressor fixation



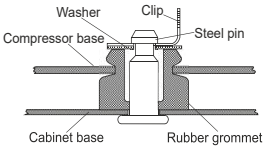
Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	100	3.94

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories	order code
'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

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

Designation				
	HXK13AT	**200-240V/50Hz**	**Conf. 1**	Sales code: **CDO00222**

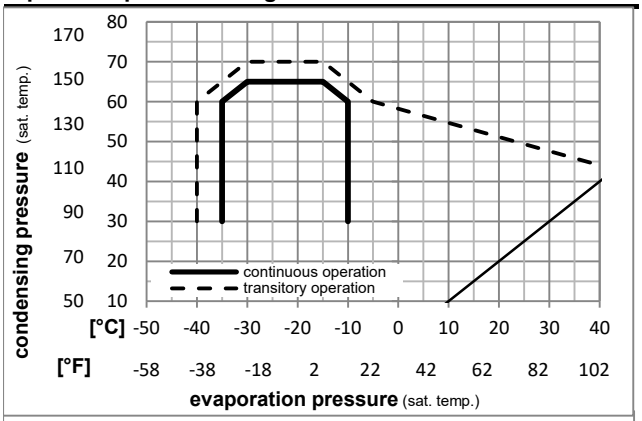
Configuration

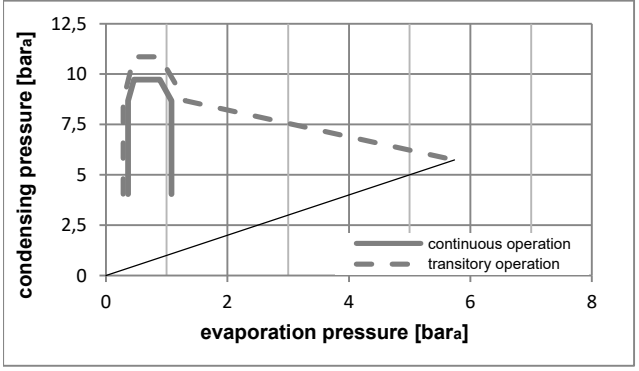
Motor configuration	RSCR
Power supply (nominal)	200-240V/50Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	180-264V
Starting torque	LST
Approvals	VDE

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

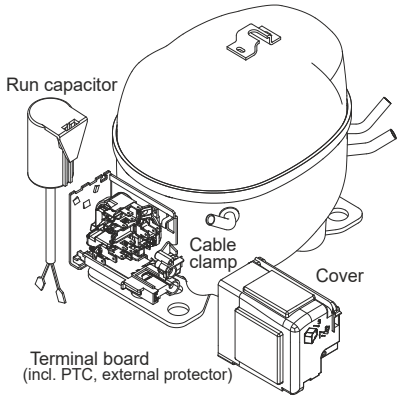
Operation pressure range

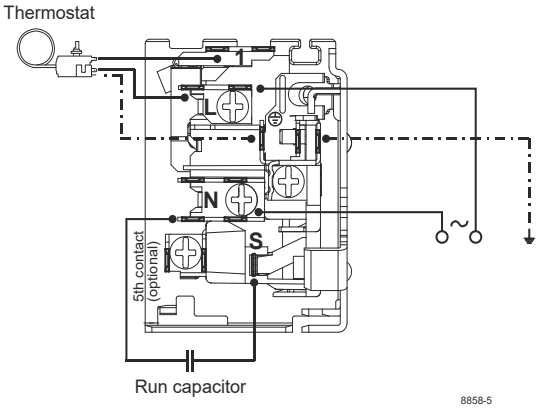




Electrical accessories / wiring diagram

RSCR





Components

.	terminal board (PTC,4.8mm,K100)	ZC F9
.	run capacitor (4µF, 4.8/6,3mm)	cap. 4µF
.	motor protector BDG AE 11 BJ x	AE11BJX
.	cover + clamp + screws (Nr. 4ZN)	16168000

Alternative components

.	terminal board (PTC,6.3mm,K100)	DC F9
.	run capacitor (4µF, 4.8/6,3mm)	cap. 4µF
.	motor protector BDG AE 11 BJ x	AE11BJX
.	cover + clamp + screws (Nr. 4ZN)	16168000

Model

Designation **HXK13AT** **200-240V/50Hz** **Conf. 1** Sales code: **CDO00222**

Optimization + standard conditions R600a, 200V/50Hz, RSCR, static, VDE

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [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