

Model

Designation	HXK80AA	220-240V/50Hz 1~	Sales code:	16414500
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cSt	Displacement	8,1cm ³ / 0,49cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1620cm ³ / 54,8fl.oz		
Weight	9kg / 19,8lbs		
Motor protection	external		
Winding resistance main	27,7Ω (at 25°C)		
Winding resistance aux	18,8Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HXK80AA

	Conf. 1	Conf. 2
Motor configuration	eRSCR	RSCR
Power supply (nominal)	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1
Voltage range	187-264V	187-264V
Approvals	VDE	VDE
Starting torque	LST	LST
Note	Various options of connectors are possible - please contact SECOP-Sales.	

Applications with HXK80AA

	Conf. 1	Conf. 2
Refrigerant	R600a	R600a
Application	LBP	LBP
System cooling	static	static
Hot gas defrost	-/-	-/-
Long interval pull down	-/-	-/-

Electrical data - Configurations with HXK80AA

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

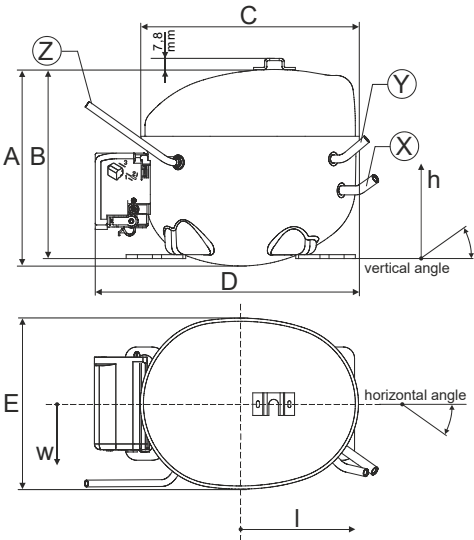
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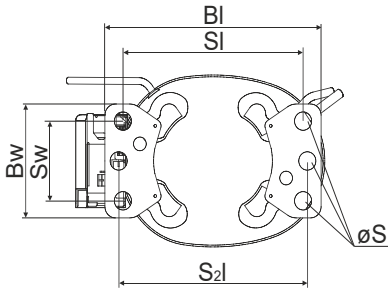
Compressor dimensions

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

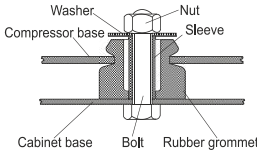


Compressor fixation

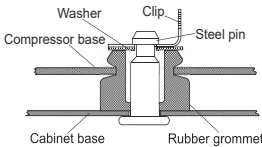


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

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

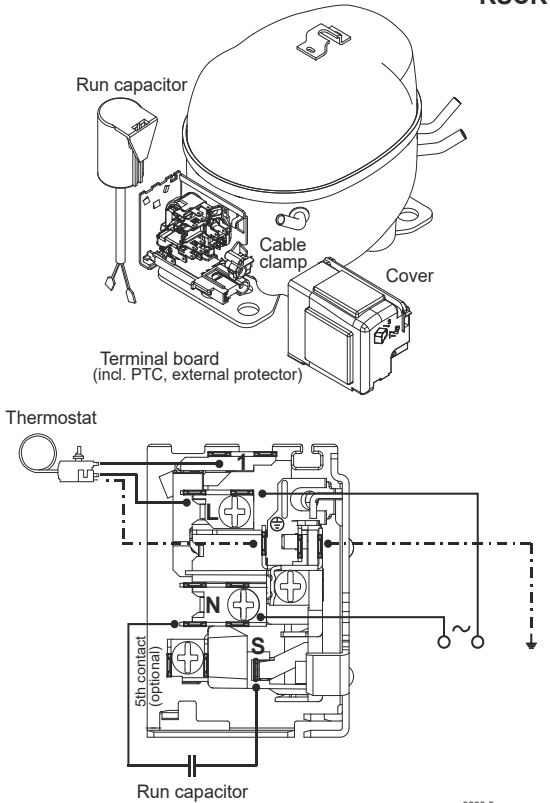
Provision for PE Grounding is located at the PE Stamp on the compressor Housing with dip-tray fixture (omega bracket).
Various options of connectors are possible - please contact SECOP-Sales.

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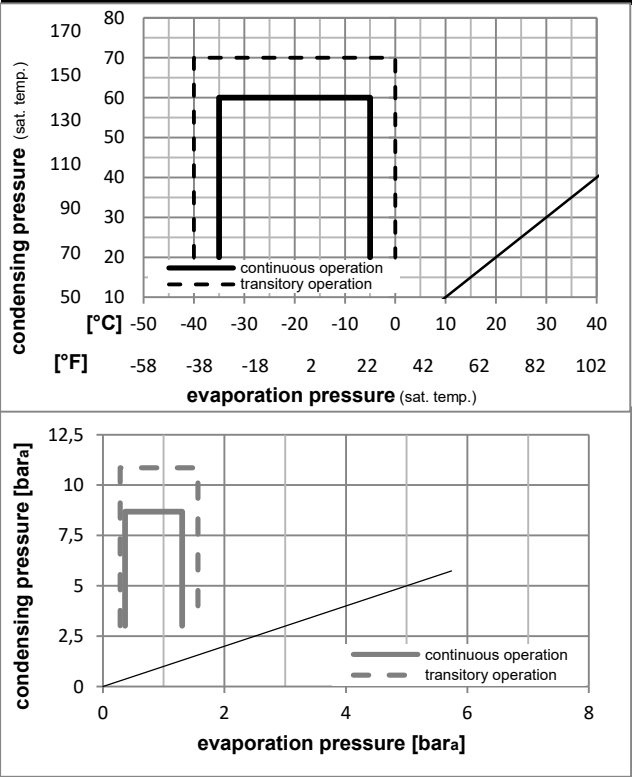
Configuration	Electrical accessories / wiring diagram				
Motor configuration	eRSCR				RSCR
Power supply (nominal)	220-240V/50Hz 1~				
Refrigerant	R600a				
Application	LBP				
Voltage range	187-264V				
Starting torque	LST				
Approvals	VDE				

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 (e-PTC, 4.8mm)	15619800
. run capacitor (3μF, 4.8mm)	10692902
b cover terminal board	10636401
. cable clamp	16058100
. screw - uni6954	10636000
. screw - uni6954	10636200

Alternative components	
. run capacitor (3μF, 4.8mm)	10693200
. screw uni en iso 4757	10641201

Model

Designation **HXK80AA** **220-240V/50Hz** Conf. 1 Sales code: **16414500**

Optimization + standard conditions

R600a, 220V/50Hz, eRSCR, static, VDE

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		Ref. mass flow					
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]										[W]	[A]	[kg/h]		
[°F]	-23	54	32	32	140,0	478	120,4	1,90	6,48	1,63	73,7	0,35	1,50	ASHRAE LBP
	-10	130	90	90										

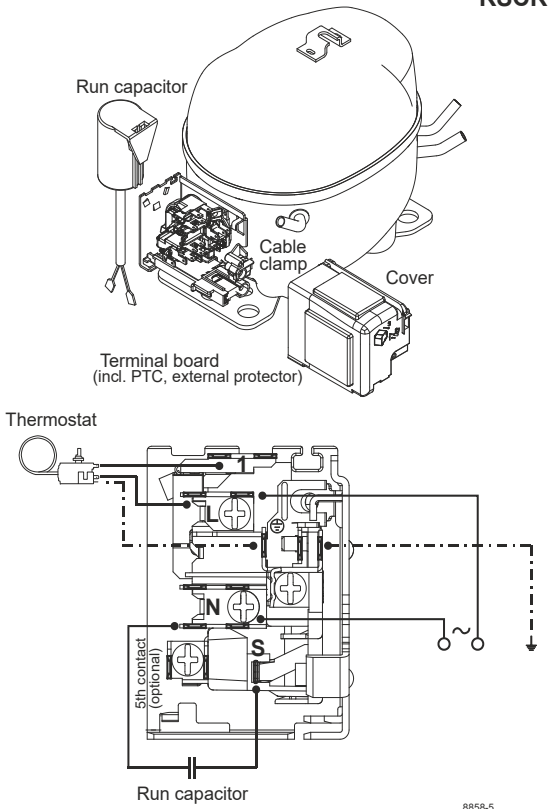
Performance tables

R600a, 220V/50Hz, eRSCR, 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	69,0	236	59,4	1,35	4,61	1,16	51,2	0,28	0,82
cond. pressure	-30	-22	92,7	317	79,8	1,57	5,37	1,35	59,0	0,30	1,10
pc= 45/113	-25	-13	121,4	415	104,5	1,79	6,13	1,54	67,7	0,33	1,45
return gas temp.	-23	-10	132,3	452	113,9	1,87	6,38	1,61	70,8	0,34	1,58
RGT= 32/90	-20	-4	155,2	530	133,6	2,01	6,88	1,73	77,1	0,36	1,85
liquid temp	-15	5	194,0	663	167,0	2,23	7,63	1,92	86,9	0,39	2,32
Tliq= 45/113	-5	23	286,6	979	246,7	2,69	9,18	2,31	106,7	0,48	3,44
[°C / °F]	-35	-31	57,8	197	49,8	1,12	3,83	0,97	51,5	0,28	0,75
cond. pressure	-30	-22	78,9	269	67,9	1,31	4,46	1,12	60,4	0,31	1,03
pc= 55/131	-25	-13	105,0	359	90,4	1,49	5,09	1,28	70,4	0,34	1,37
return gas temp	-23	-10	115,0	393	99,0	1,55	5,31	1,34	74,0	0,35	1,50
RGT= 32/90	-20	-4	136,1	465	117,2	1,67	5,72	1,44	81,3	0,38	1,78
liquid temp	-15	5	172,3	588	148,2	1,86	6,34	1,60	92,8	0,42	2,26
Tliq= 55/131	-5	23	259,4	886	223,2	2,23	7,60	1,92	116,6	0,52	3,41

Model				
Designation	HXK80AA	220-240V/50Hz	Conf. 2	Sales code: 16414500

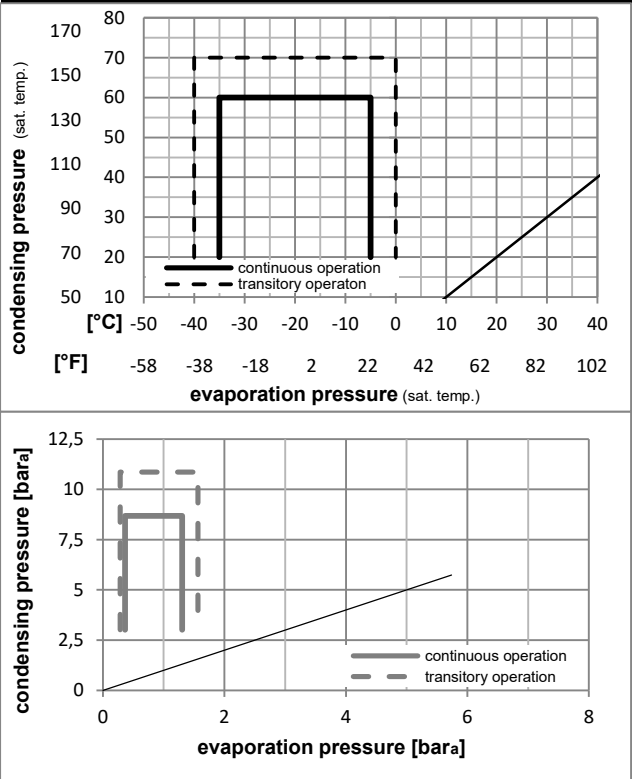
Configuration	Electrical accessories / wiring diagram			
Motor configuration	RSCR	RSCR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
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Operation pressure range



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.	run capacitor (3µF, 4.8mm)	10692902
b	cover terminal board	10636401
.	cable clamp	16058100
.	screw - uni6954	10636000
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Alternative components		
.	run capacitor (3µF, 4.8mm)	10693200
.	screw uni en iso 4757	10641201

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Optimization + standard conditions

R600a, 220V/50Hz, RSCR, static, VDE

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Performance tables

R600a, 220V/50Hz, RSCR, static, VDE

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	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C / °F]	-35	-31	69,0	236	59,4	1,35	4,61	1,16	51,2	0,28	0,82		
cond. pressure	-30	-22	92,7	317	79,8	1,57	5,37	1,35	59,0	0,30	1,10		
pc= 45/113	-25	-13	121,4	415	104,5	1,79	6,13	1,54	67,7	0,33	1,45		
return gas temp.	-23	-10	132,3	452	113,9	1,87	6,38	1,61	70,8	0,34	1,58		
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return gas temp	-23	-10	115,0	393	99,0	1,55	5,31	1,34	74,0	0,35	1,50		
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