

Model

Designation	HXK87AA	220-240V/50Hz 1~	Sales code:	CDO00103
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cSt	Displacement	8,8cm ³ / 0,54cu.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	22,4Ω (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 HXK87AA

Conf. 1

Motor configuration	RSCR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	187-264V
Approvals	VDE
Starting torque	LST
Note	- / -

Applications with HXK87AA

Conf. 1

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

Electrical data - Configurations with HXK87AA

Conf. 1

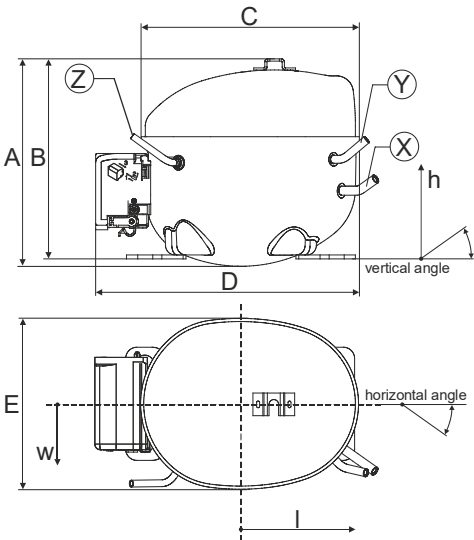
Starting device type	PTC
Run capacitor	4μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	
RLA (rated load amps / 1s/ U(N))	-/-A
Cut in current (U(N))	

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Compressor dimensions

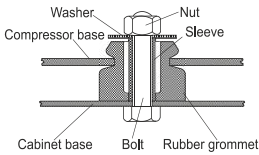
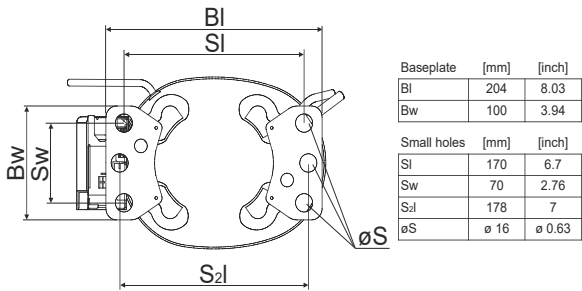
Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 6,16-6,24	øi 5,1-5,2	øi 6,11-6,29
	[in]	øi 0,24-0,25	øi 0,2-0,2	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	54°	35°	45°
Vertical angle	±2°	35°	40°	35°
Position l/h/w	[mm]	120/92/57	112/106/81	-86/94/72
	[in]	4,7/3,6/2,2	4,4/4,2/3,2	-3,4/3,7/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5

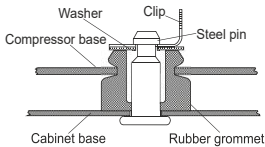


Compressor fixation

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

- Housing with dip-tray fixture (omega bracket).
- Provision for PE Grounding is located at the PE Stamp on the compressor

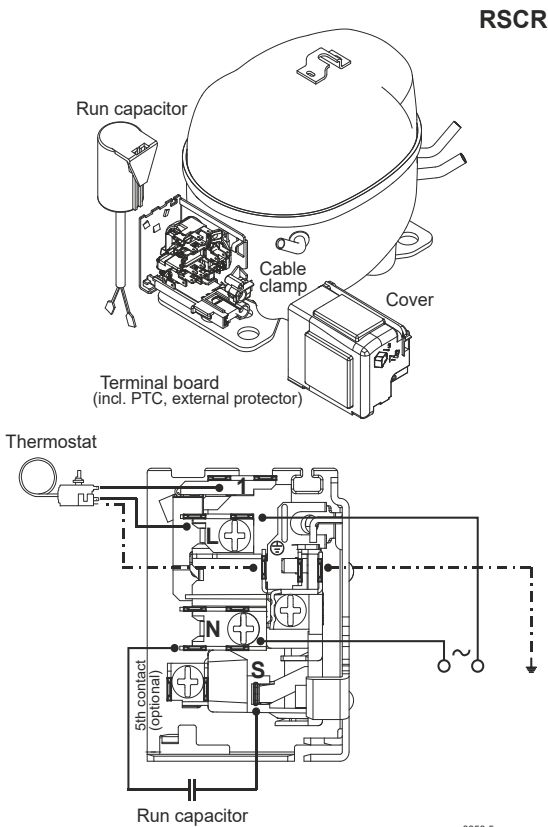
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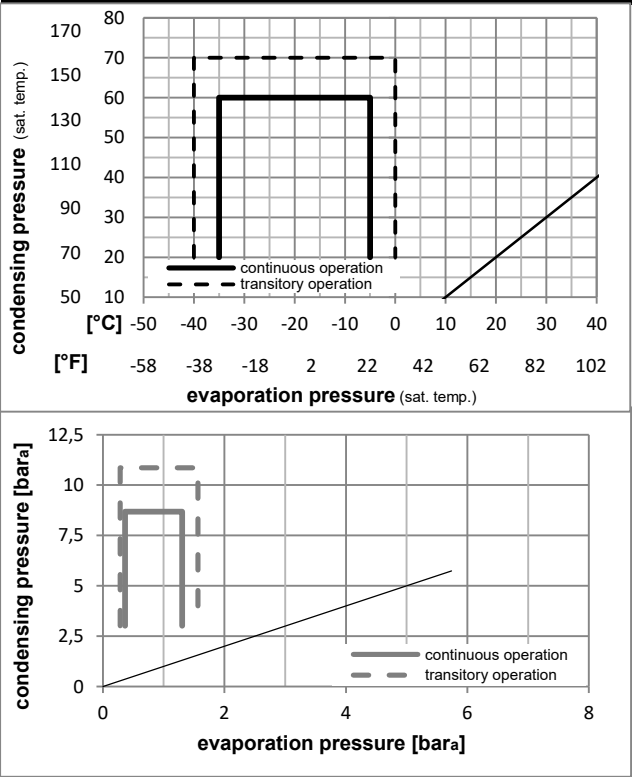
Electrical accessories / wiring diagram



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,K100)	ZX F5
#NV #NV	15759500
cable clamp	16058100

Alternative components

cover + clamp + screws (Nr. 4ZN)	16168000
Evaporation tray (optional)	11318802

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Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
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	153,5	524	132,1	1,89	6,47	1,63	81,0	0,36	1,65	
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	115,2	394	99,2	1,48	5,07	1,28	77,6	0,35	1,50	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	81,3	278	70,0	1,46	4,98	1,26	55,7	0,31	0,99	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	124,5	425	107,2	1,58	5,38	1,36	79,0	0,36	1,82	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	164,1	560	141,2	2,15	7,34	1,85	76,4	0,37	1,76	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	77,5	265	66,7	1,39	4,73	1,19	55,9	0,30	0,92	opt
[°F]	-31	113	90	113										

Performance tables

R600a, 220V/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	77,5	265	66,7	1,39	4,73	1,19	55,9	0,30	0,92
cond. pressure	-30	-22	102,3	350	88,1	1,57	5,36	1,35	65,2	0,33	1,22
pc= 45/113	-25	-13	133,3	455	114,7	1,79	6,10	1,54	74,6	0,36	1,59
return gas temp.	-23	-10	145,1	496	124,9	1,87	6,37	1,61	77,8	0,37	1,73
RGT= 32/90	-20	-4	170,1	581	146,4	2,03	6,92	1,75	83,9	0,39	2,03
liquid temp	-15	5	213,0	727	183,3	2,29	7,82	1,97	93,1	0,42	2,54
Tliq= 45/113	-5	23	316,3	1080	272,2	2,86	9,77	2,46	110,5	0,50	3,80
[°C / °F]	-35	-31	64,9	222	55,8	1,15	3,94	0,99	56,2	0,28	0,84
cond. pressure	-30	-22	87,1	297	74,9	1,30	4,45	1,12	66,8	0,32	1,13
pc= 55/131	-25	-13	115,2	394	99,2	1,48	5,07	1,28	77,6	0,35	1,50
return gas temp	-23	-10	126,1	431	108,6	1,55	5,30	1,34	81,3	0,36	1,65
RGT= 32/90	-20	-4	149,2	510	128,4	1,69	5,76	1,45	88,5	0,39	1,95
liquid temp	-15	5	189,1	646	162,8	1,90	6,50	1,64	99,4	0,43	2,48
Tliq= 55/131	-5	23	286,2	977	246,3	2,37	8,09	2,04	120,8	0,53	3,77