

Model

Designation	HXK70AA	220-240V/50Hz 1~	Sales code:	CDO00110
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cSt	Displacement	6,64cm ³ / 0,41cu.in
Oil quantity	165cm ³ / 5,6fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1660cm ³ / 56,1fl.oz		
Weight	8,2kg / 18,1lbs		
Motor protection	external		
Winding resistance main	37,1Ω (at 25°C)		
Winding resistance aux	28,9Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HXK70AA

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	Various options of connectors are possible - please contact SECOP-Sales.

Applications with HXK70AA

Conf. 1

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

Electrical data - Configurations with HXK70AA

Conf. 1

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

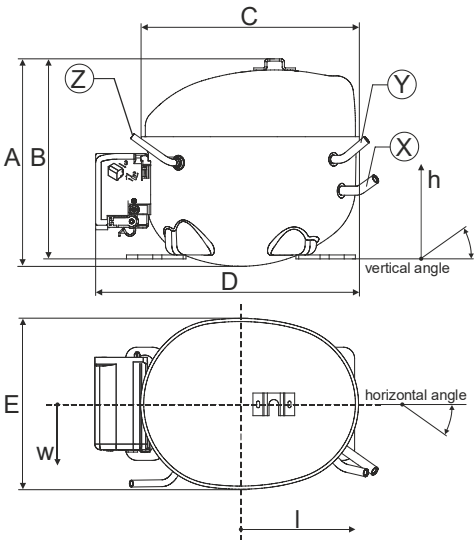
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Compressor dimensions

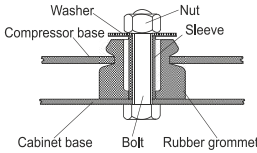
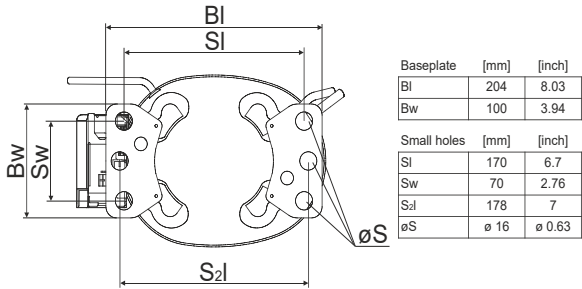
Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6,16-6,24	øi 5,1-5,2	øi 6,11-6,29
(i:inside, o:outside) [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

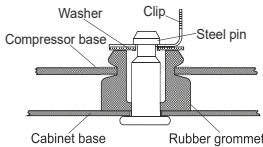


Compressor fixation

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

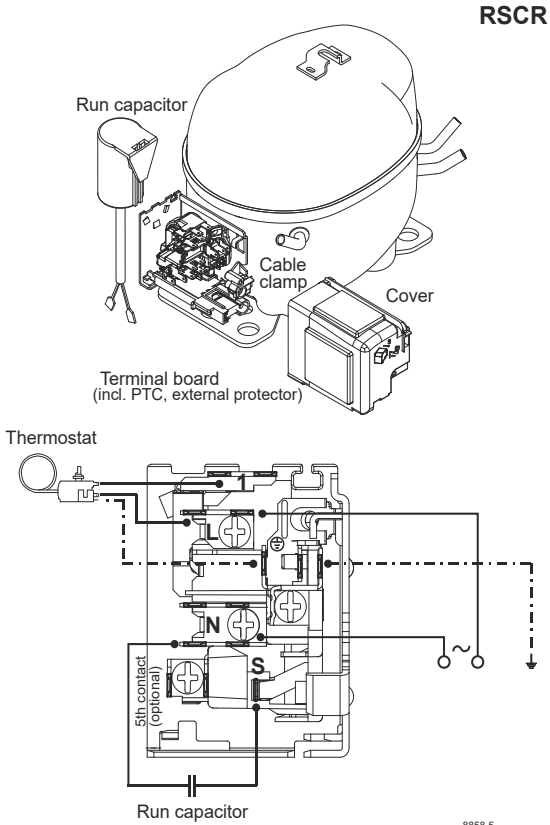
- Housing with dip-tray fixture (omega bracket).
- Provision for PE Grounding is located at the PE Stamp on the compressor

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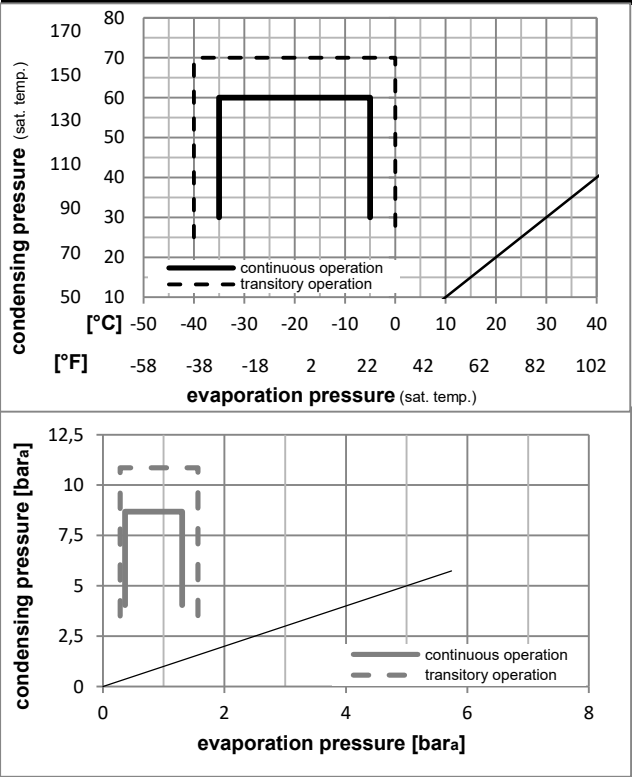
Configuration	Electrical accessories / wiring diagram				
Motor configuration	RSCR				
Power supply (nominal)	220-240V/50Hz 1~				
Refrigerant	R600a				
Application	LBP				
Voltage range	187-264V				
Starting torque	LST				
Approvals	VDE				

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 (PTC,4.8mm,K100)	ZX F6
Term. Board Cover	15759500
cable clamp	16058100

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

Model

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Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	ṁ		
[°C]	[°C]											[kg/h]		
[°C]	-23	54	32	32	118,1	403	101,7	1,86	6,34	1,60	63,6	0,29	1,27	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	65,6	224	56,5	1,38	4,71	1,19	47,6	0,22	0,80	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	96,3	329	82,9	1,57	5,35	1,35	61,5	0,28	1,41	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	127,8	436	110,0	2,17	7,42	1,87	58,8	0,27	1,37	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72	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	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72
cond. pressure	-30	-22	79,3	271	68,2	1,54	5,28	1,33	51,3	0,23	0,94
pc= 45/113	-25	-13	103,3	353	88,9	1,79	6,11	1,54	57,8	0,26	1,23
return gas temp.	-23	-10	112,6	385	96,9	1,87	6,39	1,61	60,2	0,27	1,34
RGT= 32/90	-20	-4	132,5	452	114,0	2,03	6,93	1,75	65,3	0,30	1,58
liquid temp	-15	5	166,8	570	143,5	2,27	7,75	1,95	73,5	0,33	1,99
Tliq= 45/113	-5	23	250,9	857	215,9	2,75	9,39	2,37	91,2	0,41	3,01
[°C / °F]	-35	-31	46,5	159	40,1	1,09	3,71	0,94	42,8	0,19	0,61
cond. pressure	-30	-22	65,0	222	55,9	1,27	4,34	1,09	51,1	0,23	0,85
pc= 55/131	-25	-13	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15
return gas temp	-23	-10	97,0	331	83,5	1,52	5,19	1,31	63,9	0,29	1,27
RGT= 32/90	-20	-4	115,9	396	99,8	1,64	5,60	1,41	70,7	0,32	1,51
liquid temp	-15	5	148,4	507	127,7	1,82	6,22	1,57	81,5	0,37	1,94
Tliq= 55/131	-5	23	227,5	777	195,8	2,19	7,49	1,89	103,7	0,47	2,99