

Model
HZK13AA

Sales code:
16513000

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	9.60 kg / 21.16lbs
Displacement	12.50 cm3 / 0.76cu.in
Compressors on pallet	100



General – Configurations With HZK13AA

-	Conf. 1
Motor configuration	eRSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
Starting torque	LST
Refrigerant	R600a
Application	LBP

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

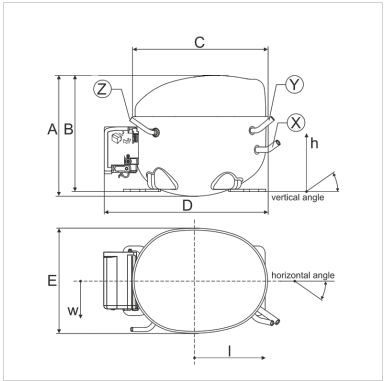
Oil type	Mineral	Winding resistance main	11.100 Ohm
Oil viscosity	5cSt	Winding resistance aux	11.70 Ohm
Oil quantity	162 / 5.48fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,620 cm3 / 54.78fl.oz	Max. discharge temp.	120°C / 248°F
Motor protection	external		

Compressor Dimensions

Housing

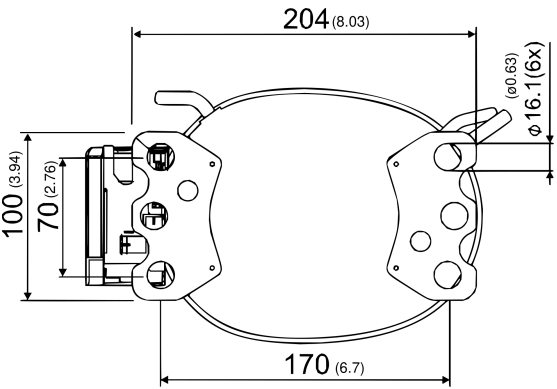
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)

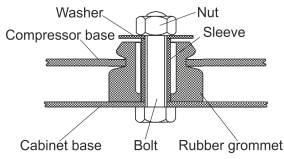


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.3 / 0.24–0.25in	øi 5.1–5.2 / 0.20–0.20in	øi 6.1–6.3 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	35°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-86/102/70 / -3.39/4.02/2.76in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

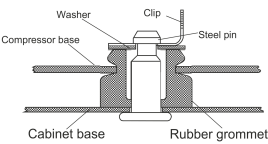
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	-
Snap-on ø7,3 ø16mm	118-1947	118-1919

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Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	198-254 V
Starting torque	LST
Approvals	VDE
Starting device type	e-PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	7.5 A
RLA (rated load amps / 1s/ U(N))	1.1 A
Cut in current (U(N))	14.3 A

Ambient/ machine room temperatures minimum /maximum

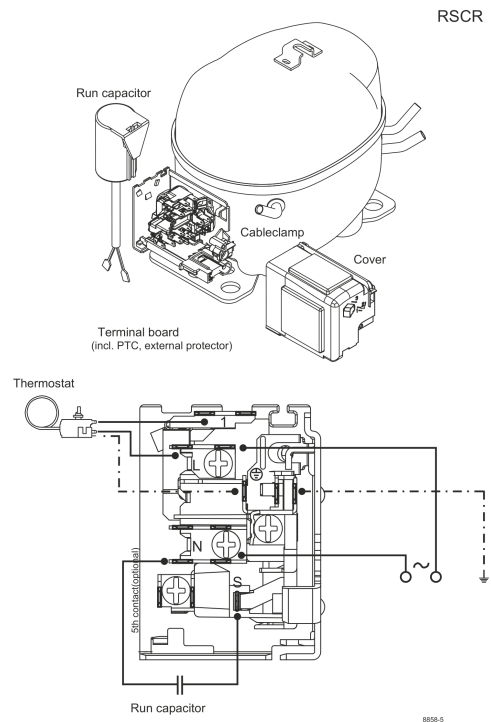
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

. terminal board (e-PTC, 4.8mm) 15541400

. run capacitor (4 μ F, 4.8mm) 11261700

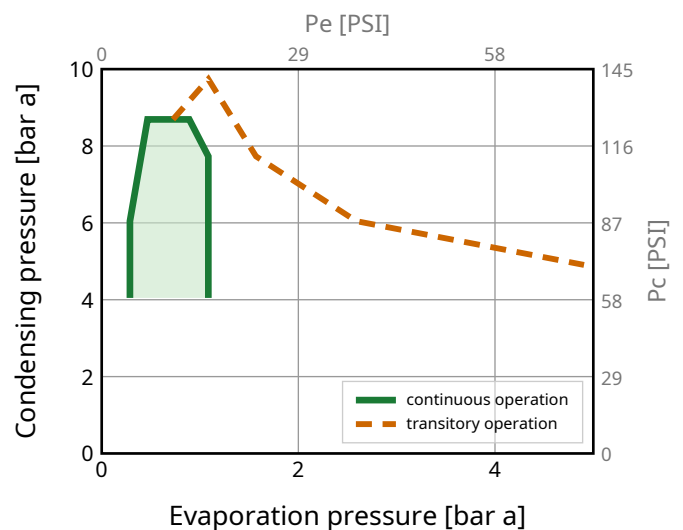
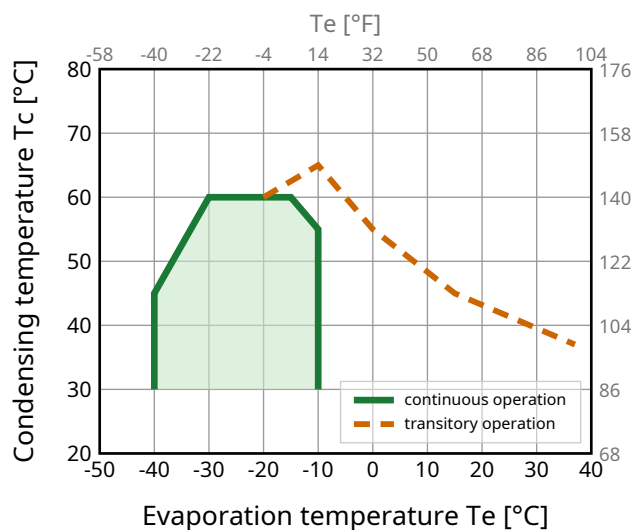
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components

b, d 100x cover + clamp + screws (5VA) 103N2060

b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range



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Standard Conditions

R600a, 220 V/50 Hz, eRSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	235	802	202	1.86	6.35	126	0.80	2.53	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	177	603	152	1.46	4.98	121	0.78	2.30	CECOMAF LBP
-35 -31	40 104	20 68	40 104	120	409	103	1.43	4.87	84	0.59	1.46	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	190	650	164	1.56	5.33	122	0.78	2.78	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	247	841	212	2.13	7.28	116	0.75	2.65	AHAM LBP
-25 -13	45 113	32 89.6	45 113	202	690	174	1.78	6.06	114	0.74	2.41	opt LBP

Performance Tables

R600a, 220 V/50 Hz, eRSCR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	80	274	69	1.04	3.56	77	0.55	0.95
-35	-31	115	391	99	1.32	4.50	87	0.60	1.36
-30	-22	155	529	133	1.56	5.32	100	0.67	1.84
-25	-13	202	690	174	1.78	6.06	114	0.74	2.41
-20	-4	257	876	221	1.99	6.77	129	0.82	3.06
-15	5	319	1090	275	2.20	7.50	145	0.89	3.81
-10	14	390	1332	336	2.43	8.29	161	0.96	4.67

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-40	-40	63	216	54	0.74	2.51	86	0.59	0.82
-35	-31	95	324	82	1.01	3.45	94	0.64	1.23
-30	-22	133	452	114	1.25	4.27	106	0.70	1.73
-25	-13	177	603	152	1.46	4.98	121	0.78	2.30
-20	-4	228	778	196	1.65	5.62	138	0.86	2.98
-15	5	287	979	247	1.82	6.22	157	0.94	3.75
-10	14	354	1208	305	2.00	6.82	177	1.03	4.64