

Model
HKK70AA

Sales code:
16443900

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	7.90 kg / 17.42lbs
Displacement	6.60 cm3 / 0.40cu.in
Compressors on pallet	100



General – Configurations With HKK70AA

-	Conf. 1	Conf. 2
Motor configuration	RSCR	RSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	187-264 V	187-264 V
Approvals	VDE	VDE
Starting torque	LST	LST
Refrigerant	R600a	R600a
Application	LBP	LBP

Application Notes

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

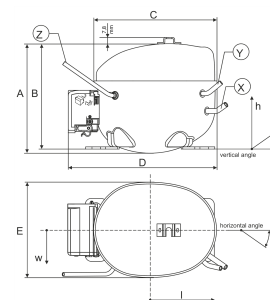
Oil type	Mineral	Winding resistance main	31.8 Ohm
Oil viscosity	5cSt	Winding resistance aux	24.2 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,520 cm ³ / 51.40fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

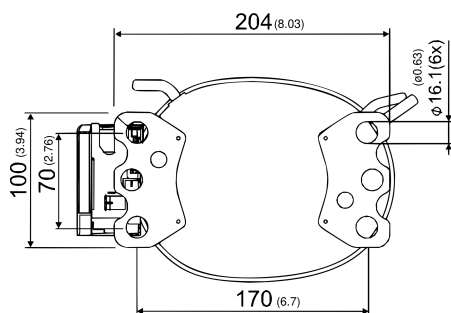
A Height	166mm / 6.54in
B Height	159mm / 6.26in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



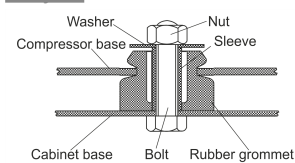
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70 / -5.51/5.35/2.76in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	75 / 2.95in

Mounting Accessories

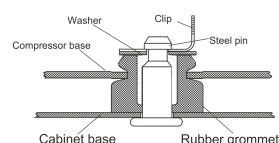


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
'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

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Configuration 1

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Configuration

Motor configuration	RSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	187-264 V
Starting torque	LST
Approvals	VDE
Starting device type	PTC
Run capacitor	3 μF
Start capacitor	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

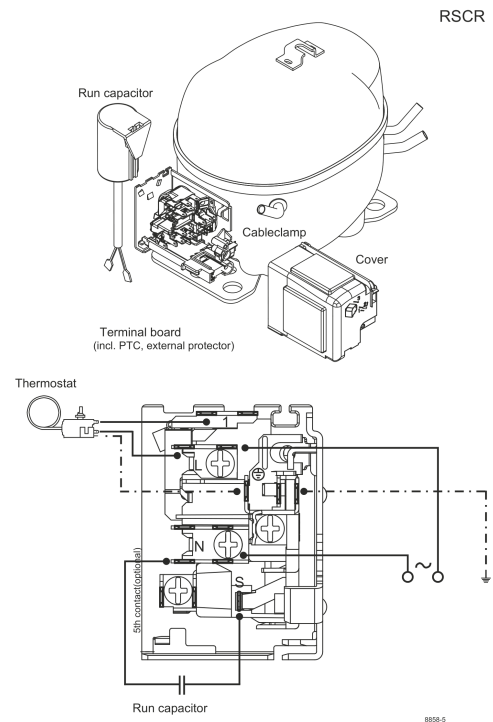
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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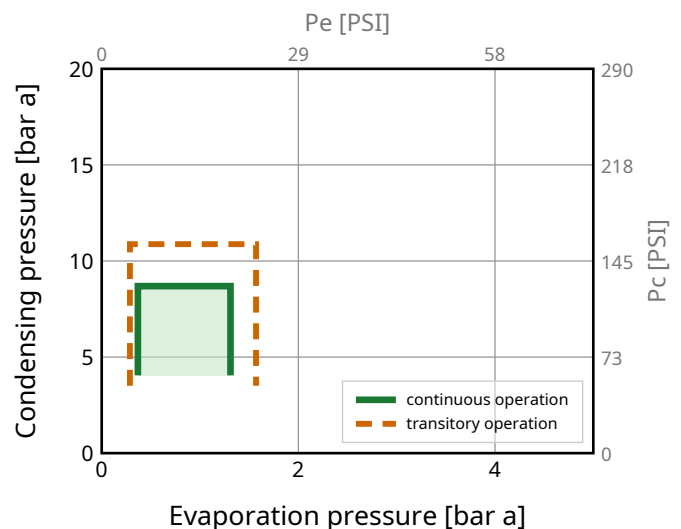
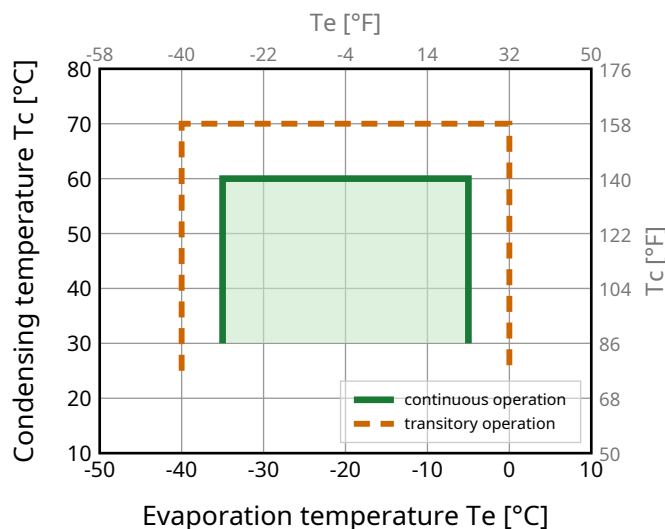
Components

- . terminal board (PTC, 4.8mm) 15166100
- . run capacitor (3 μ F, 4.8mm) 10692902
- b** cover terminal board 10636401
- . cable clamp 16058100

Alternative components

- . screw - uni6954 10636000
- . screw - uni6954 10636200
- . screw uni en iso 4757 10641201

Operation Pressure Range



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Configuration 1

Sales code:
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Standard Conditions

R600a, 220 V/50 Hz, RSCR, 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	117	399	101	1.74	5.94	67	0.28	1.26	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	87	297	75	1.36	4.63	64	0.27	1.13	CECOMAF LBP
-35 -31	40 104	20 68	40 104	54	184	46	1.23	4.18	44	0.19	0.66	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	95	324	82	1.47	5.01	65	0.27	1.39	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	125	425	107	2.00	6.83	62	0.26	1.34	AHAM LBP
-35 -31	45 113	32 89.6	45 113	52	176	44	1.17	4.00	44	0.20	0.61	opt LBP

Performance Tables

R600a, 220 V/50 Hz, RSCR, 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]
-35	-31	52	176	44	1.17	4.00	44	0.20	0.61
-30	-22	74	251	63	1.42	4.83	52	0.23	0.88
-25	-13	100	342	86	1.66	5.65	60	0.26	1.19
-20	-4	131	448	113	1.89	6.46	69	0.29	1.57
-15	5	167	569	143	2.13	7.27	78	0.32	1.99
-10	14	207	705	178	2.37	8.10	87	0.35	2.48
-5	23	251	856	216	2.63	8.96	96	0.39	3.01

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

-35	-31	44	150	38	0.97	3.30	46	0.20	0.57
-30	-22	63	216	54	1.16	3.97	54	0.23	0.82
-25	-13	87	297	75	1.36	4.63	64	0.27	1.13
-20	-4	115	393	99	1.55	5.29	74	0.30	1.50
-15	5	148	505	127	1.74	5.92	85	0.34	1.94
-10	14	185	632	159	1.92	6.56	96	0.37	2.43
-5	23	227	775	195	2.11	7.20	108	0.41	2.98

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Configuration 2

Sales code:
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Motor configuration	RSCR
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Starting torque	LST
Approvals	VDE
Starting device type	PTC
Run capacitor	3 μF
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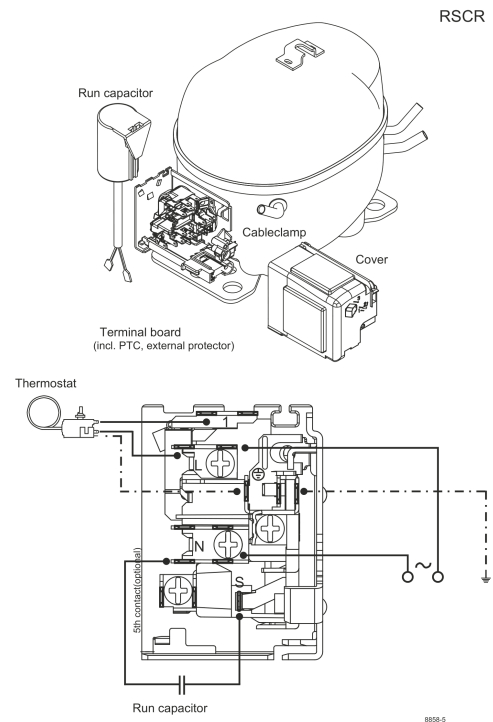
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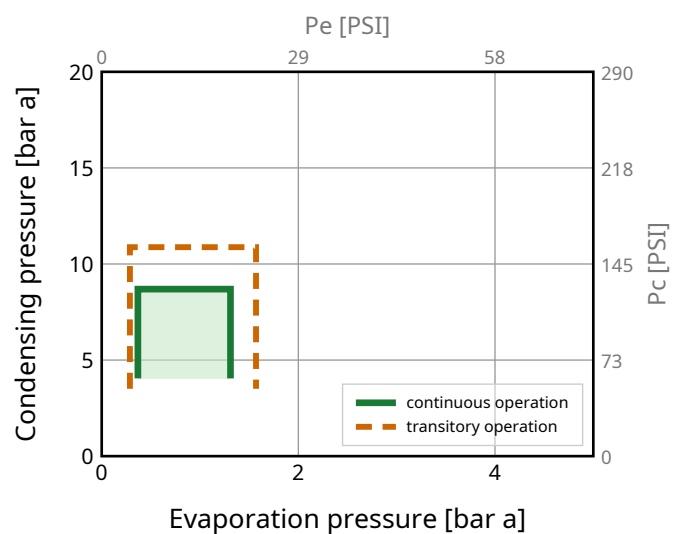
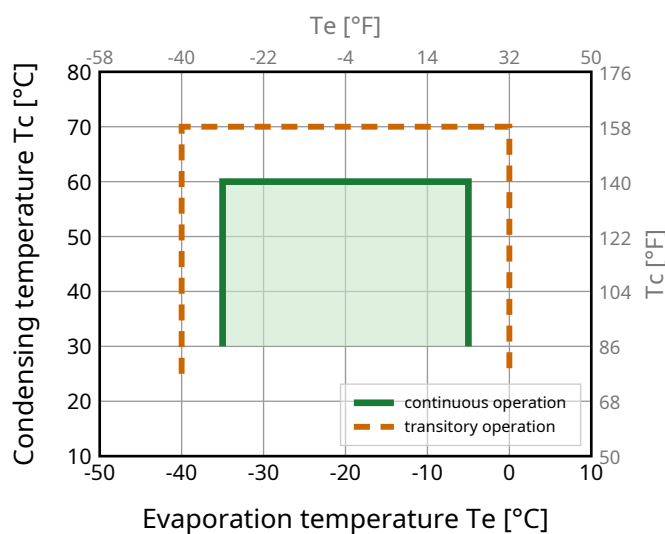
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Operation Pressure Range



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