Single Pack HKK70AA 220-240V 50Hz RSCR

Single pack code number: **195B4661**

Position	Title	Code	Amount
1	Compressor HKK70AA	16443900	1
2	Terminal board 4.8mm	15166100	1
3	Screw for cable clamp	10636000	1
4	Screw for cable clamp	10636200	1
5	Cable clamp	11341000	1
6	Cover	10636401	1
7	Earth screw	10641201	1
8	Sleeve	10631600	4
9	Rubber grommet 16mm	11322600	4

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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.

Model
HKK70AA

Sales code:
16443900

Compressor Design

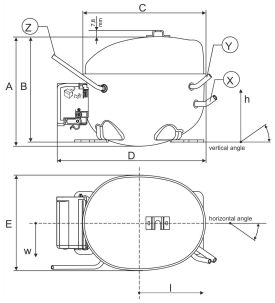
Oil type	**Mineral**	Winding resistance main	**31.8 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**24.2 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,520 cm3 / 51.40fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

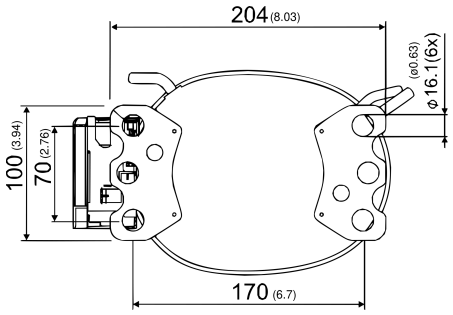
A Height	**166mm / 6.54in**
B Height	**159mm / 6.26in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



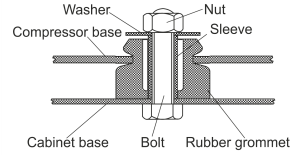
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

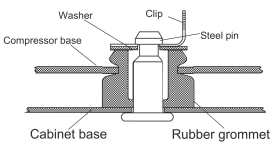


Dimensions in mm [in]

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

Model

HKK70AA Configuration 1

Sales code:

16443900

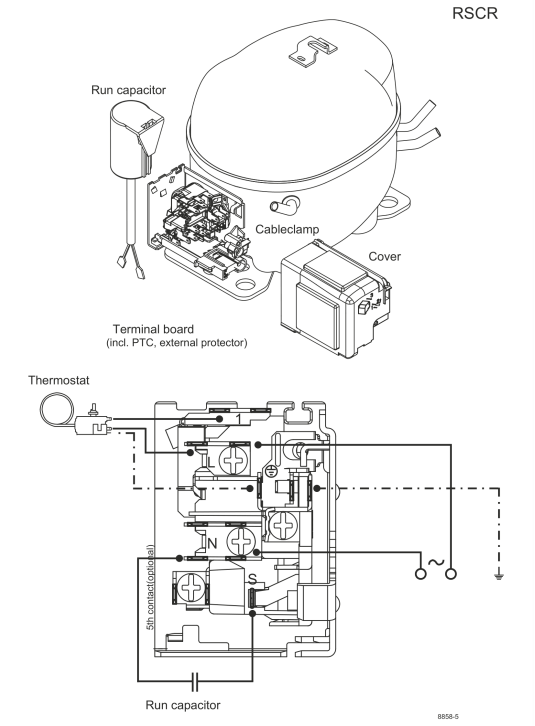
Configuration

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

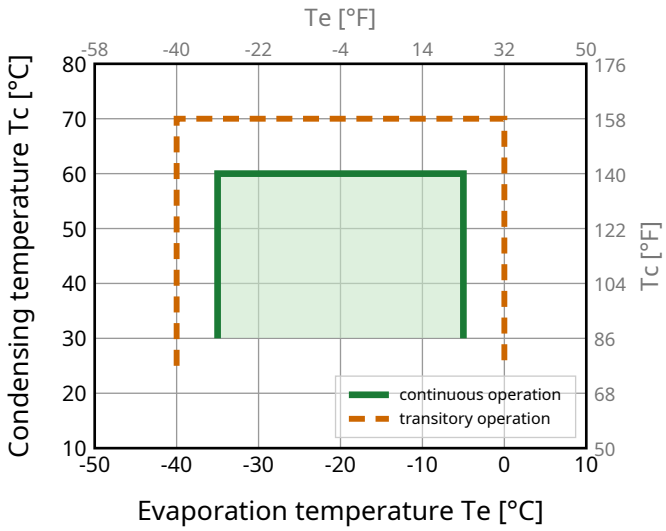


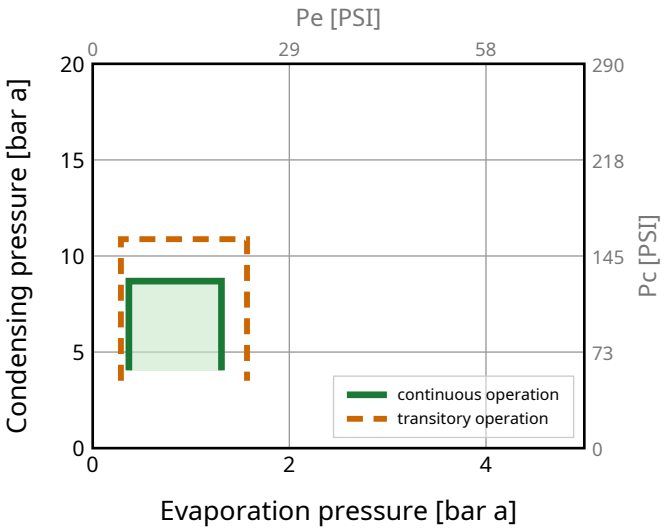
View full size

Components
. terminal board (PTC, 4.8mm) 15166100
. run capacitor (3µF, 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





Model
HKK70AA Configuration 1

Sales code:
16443900

Standard Conditions

R600a, 220 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	ṁ
[°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

Model

HKK70AA Configuration 2

Sales code:

16443900

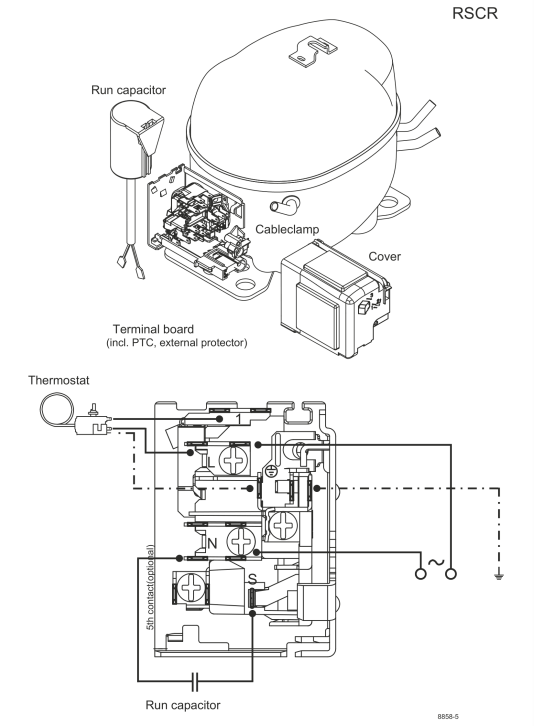
Configuration

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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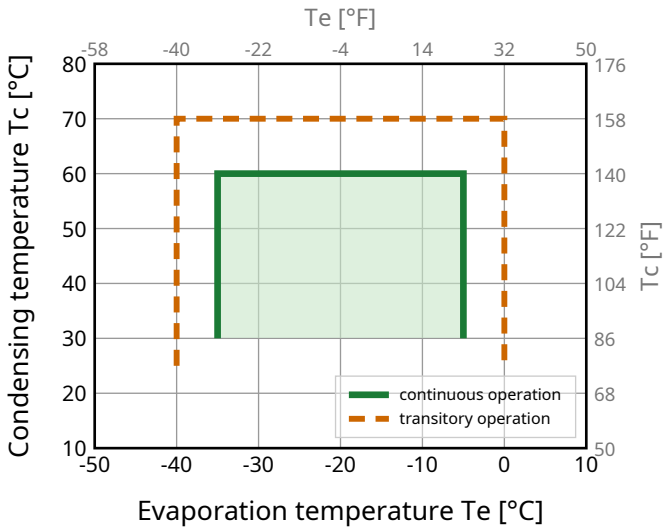
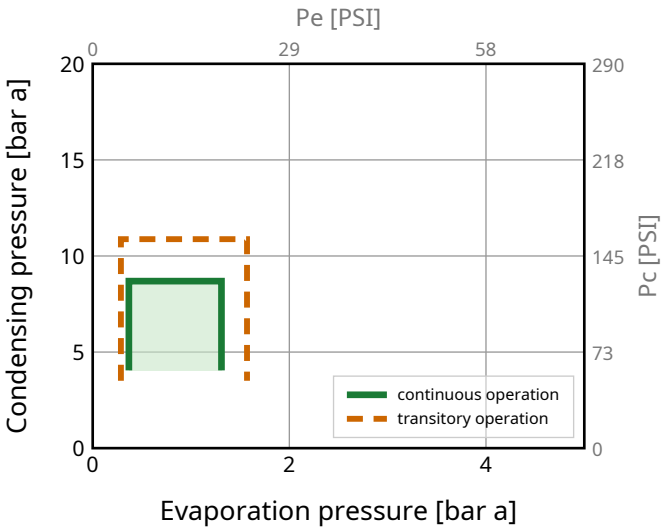
Components
. terminal board (PTC, 4.8mm) 15166100
. run capacitor (3µF, 4.8mm) 10693200
b cover terminal board 10636401
. cable clamp 16058100

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

Operation Pressure Range





Model
HKK70AA Configuration 2

Sales code:
16443900

Standard Conditions

R600a, 220 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
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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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
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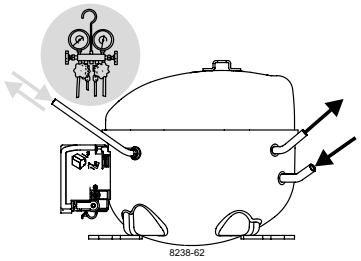


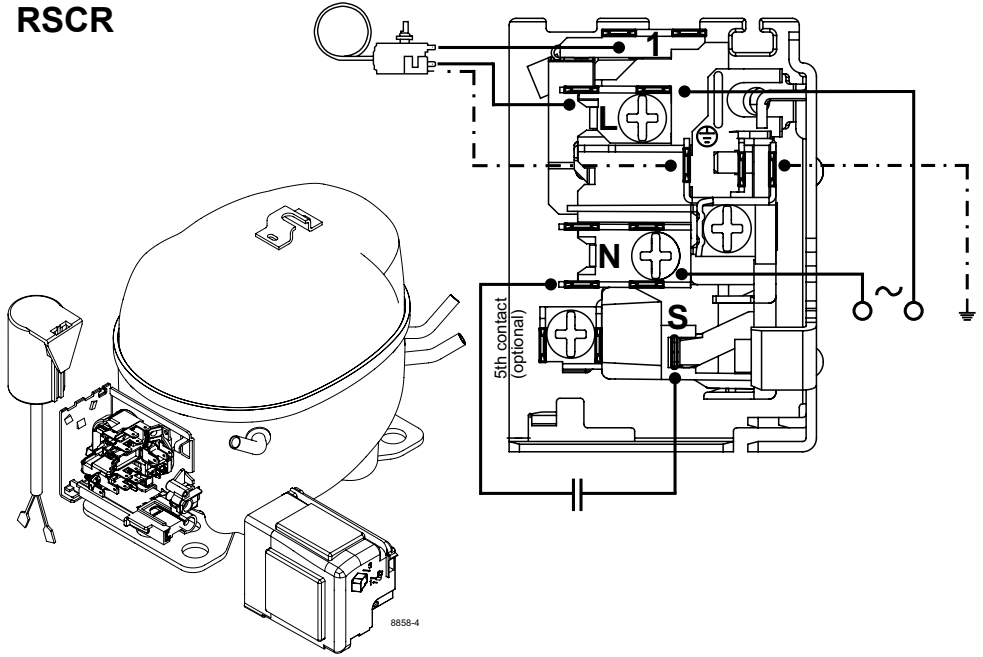
K-Series Compressors
GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

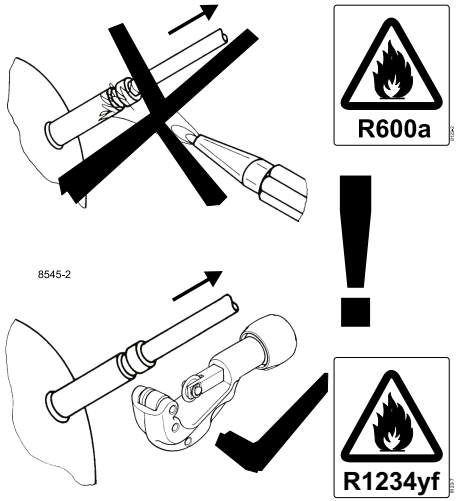
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

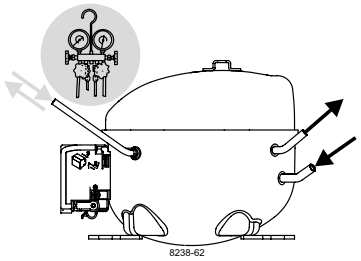
RSCR



Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)





K-Series Compressors
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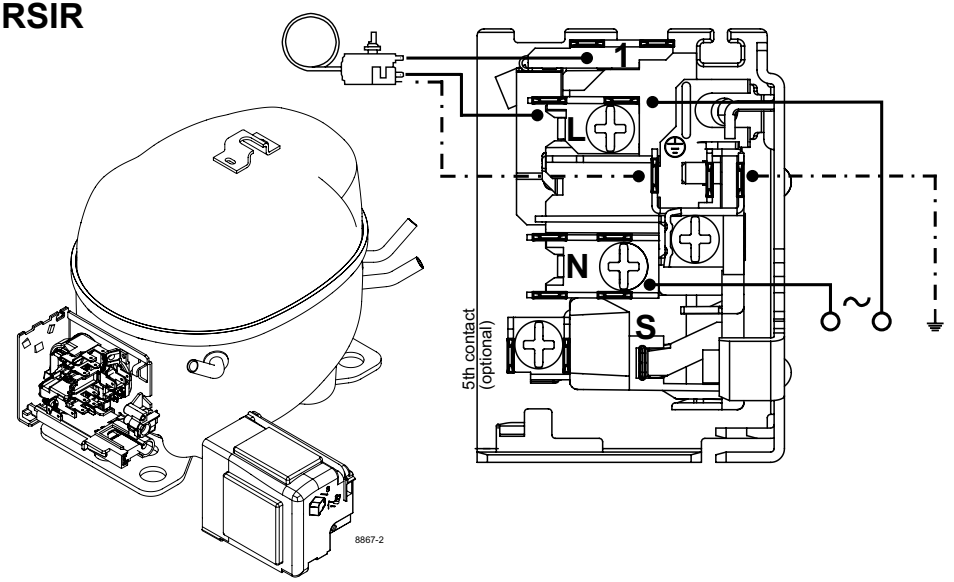
RSIR



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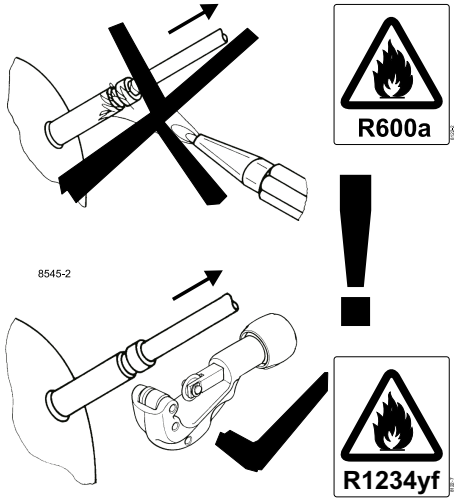

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**