Single
Packs

Single Pack HMK80AA 220-240V 50Hz RSIR

Single pack code number: **195B4543**

Position	Title	Code	Amount
1	Compressor HMK80AA	16050800	1
2	Terminal board 4.8mm	15163500	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	10640100	4
9	Rubber grommet 16.5mm	10639900	4

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Model
HMK80AA

Sales code:
16050800

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**7.60 kg / 16.76lbs**
Displacement	**8.10 cm3 / 0.49cu.in**
Compressors on pallet	**100**

General – Configurations With HMK80AA

–	**Conf. 1**	**Conf. 2**
Motor configuration	RSIR	RSIR
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
HMK80AA

Sales code:
16050800

Compressor Design

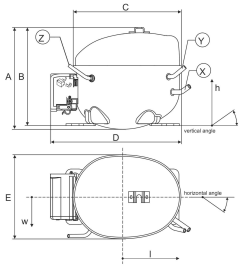
Oil type	**Mineral**	Winding resistance main	**29.4 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**16.5 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,520 cm3 / 51.40fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

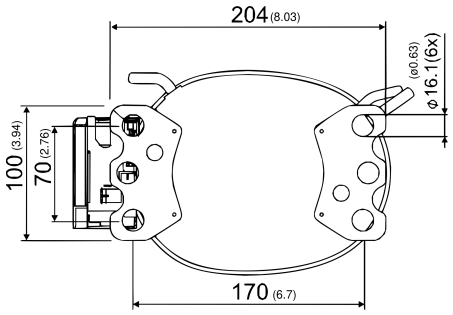
A Height	**174mm / 6.85in**
B Height	**167mm / 6.57in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



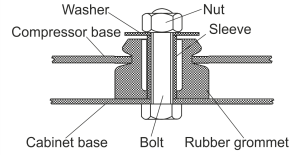
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.16–6.24 / 0.24–0.25in	øi 5.1–5.2 / 0.20–0.20in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	54°	35°	45°
Vertical angle ±2°	35°	40°	35°
Position l/h/w [mm]	120/92/56.7 / 4.72/3.62/2.23in	112/105.5/81 / 4.41/4.15/3.19in	-86/94.3/72 / -3.39/3.71/2.83in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

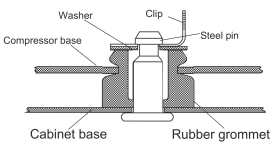


Dimensions in mm [in]

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
HMK80AA Configuration 1

Sales code:
16050800

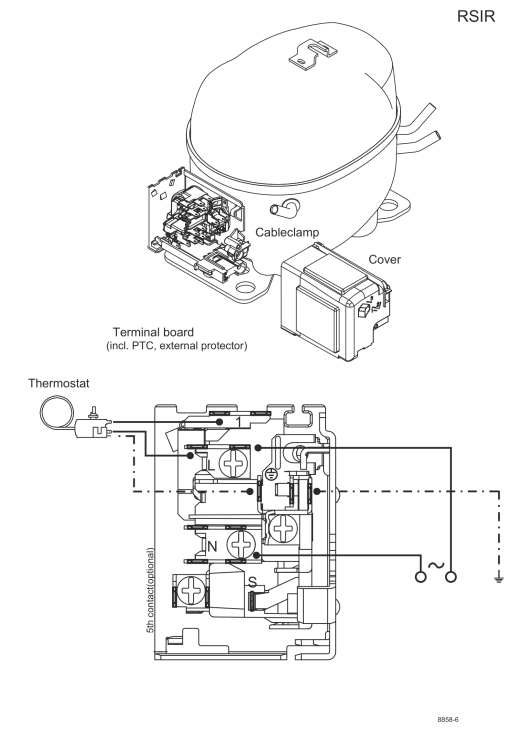
Configuration

Motor configuration	**RSIR**
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	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**3.55 A**
RLA (rated load amps / 1s/ U(N))	**0.8 A**
Cut in current (U(N))	**10 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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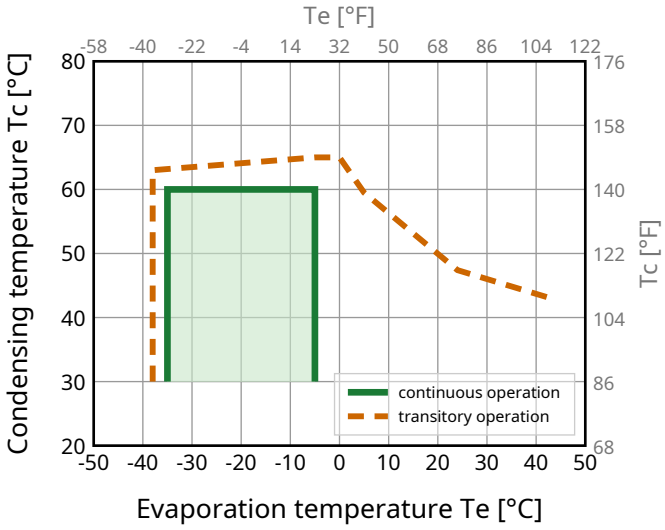
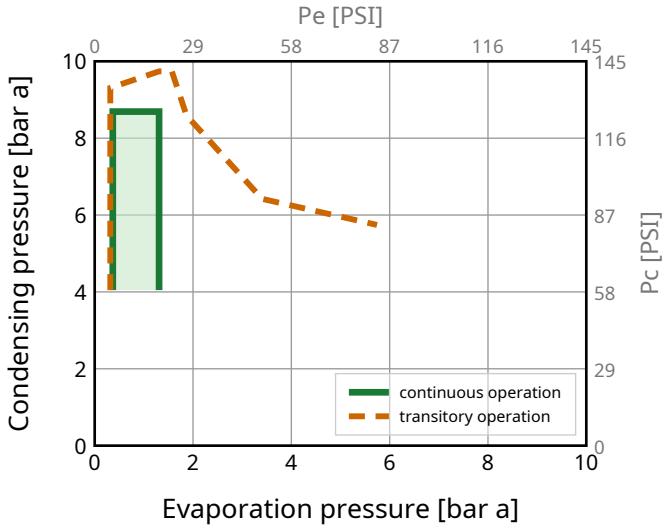
Components
. terminal board (PTC, 4.8mm) 15163500
. Term. Board Cover 15759500
. cable clamp 16058100
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HMK80AA Configuration 1

Sales code:
16050800

Standard Conditions

R600a, 220 V/50 Hz, RSIR, 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	**136**	464	117	**1.50**	5.12	90	0.62	1.46	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**102**	347	87	**1.18**	4.01	86	0.60	1.33	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**73**	248	62	**1.12**	3.84	65	0.52	0.88	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**110**	376	95	**1.25**	4.25	89	0.61	1.61	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**144**	492	124	**1.68**	5.74	86	0.60	1.55	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**68**	232	59	**1.07**	3.64	64	0.51	0.81	**opt LBP**

Performance Tables

R600a, 220 V/50 Hz, RSIR, 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	**68**	232	59	**1.07**	3.64	64	0.51	0.81
-30	-22	**90**	306	77	**1.21**	4.14	74	0.55	1.06
-25	-13	**117**	400	101	**1.40**	4.76	84	0.59	1.39
-20	-4	**151**	514	130	**1.60**	5.47	94	0.64	1.80
-15	5	**190**	649	164	**1.83**	6.23	104	0.69	2.27
-10	14	**236**	805	203	**2.06**	7.04	114	0.73	2.82
-5	23	**287**	980	247	**2.31**	7.87	125	0.79	3.45

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

-35	-31	**55**	187	47	**0.88**	3.01	62	0.49	0.71
-30	-22	**76**	258	65	**1.02**	3.48	74	0.55	0.98
-25	-13	**102**	347	87	**1.18**	4.01	86	0.60	1.33
-20	-4	**133**	453	114	**1.34**	4.58	99	0.66	1.74
-15	5	**169**	578	146	**1.51**	5.16	112	0.72	2.22
-10	14	**211**	720	181	**1.68**	5.75	125	0.79	2.77
-5	23	**258**	879	222	**1.86**	6.33	139	0.85	3.39

Model
HMK80AA Configuration 2

Sales code:
16050800

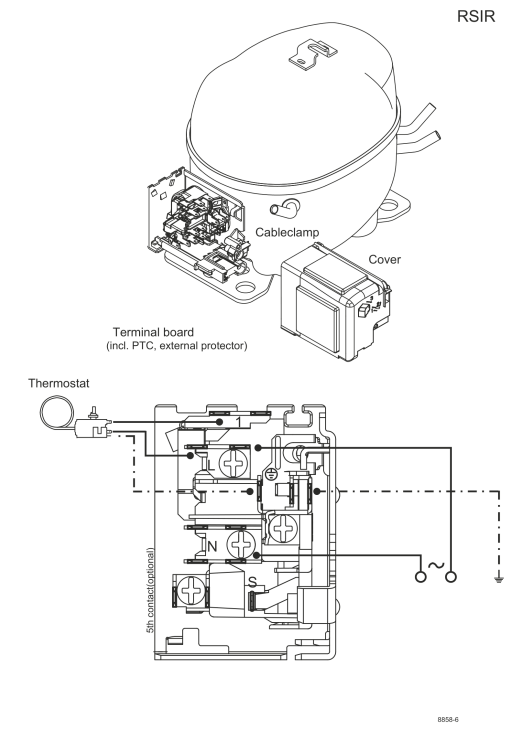
Configuration

Motor configuration	**RSIR**
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	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**3.55 A**
RLA (rated load amps / 1s/ U(N))	**0.8 A**
Cut in current (U(N))	**10 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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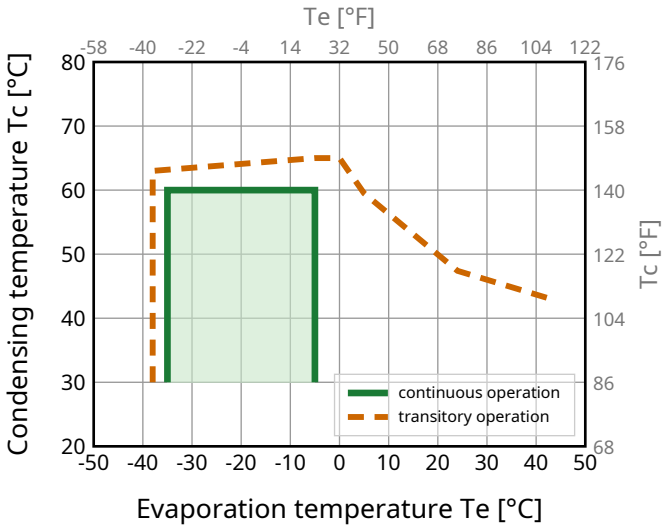
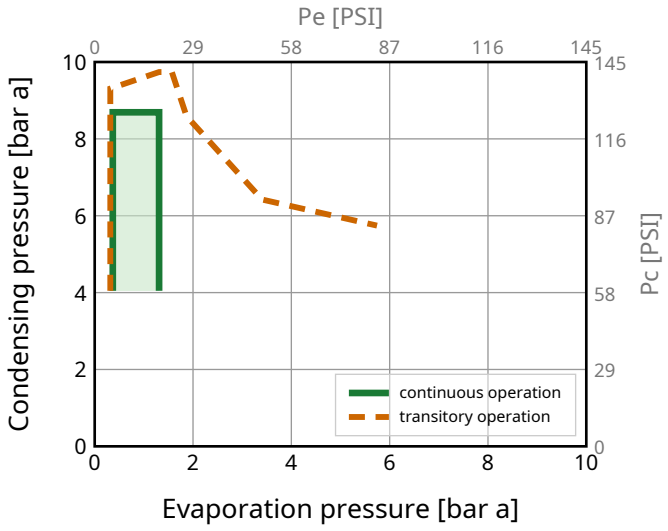
Components
. terminal board (PTC, 6.3mm) 15279300
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HMK80AA Configuration 2

Sales code:
16050800

Standard Conditions

R600a, 220 V/50 Hz, RSIR, 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, RSIR, static

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

pe		Cooling capacity			COP	EER	P	I	ṁ
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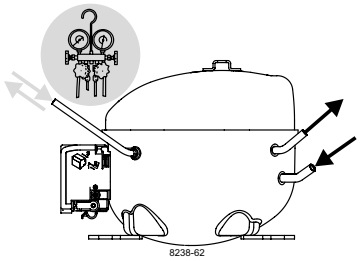


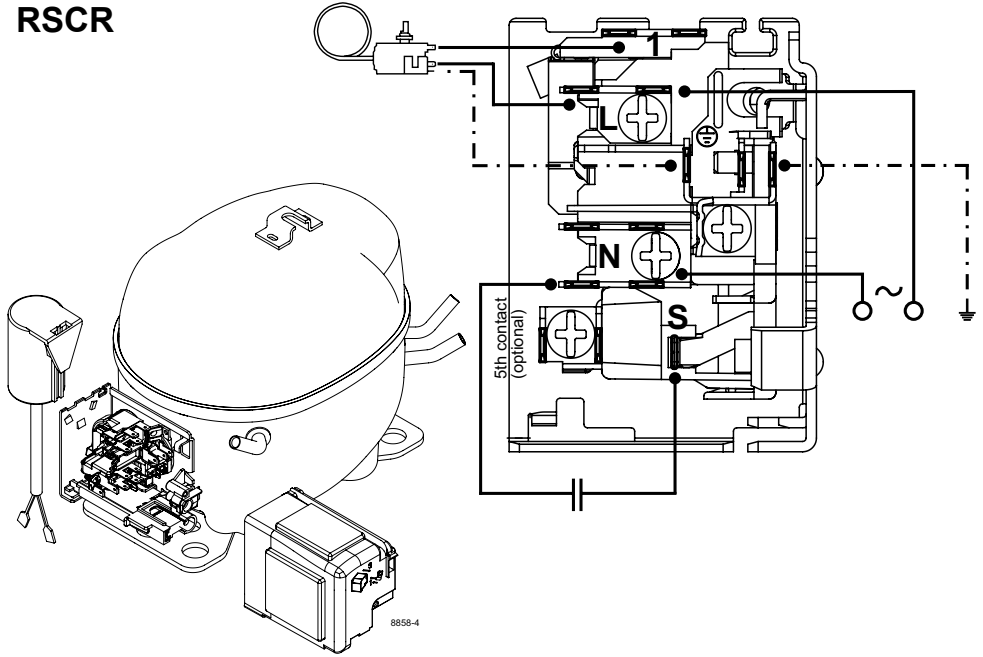
K-Series Compressors
GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

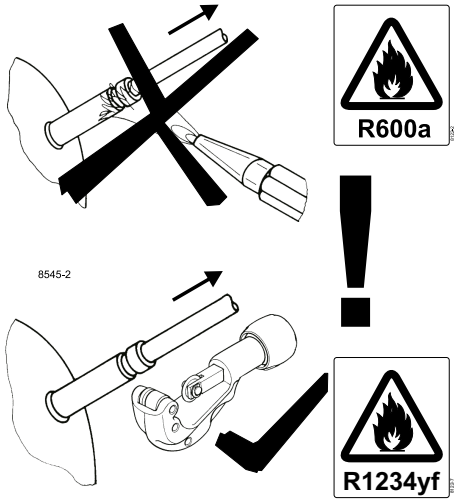
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

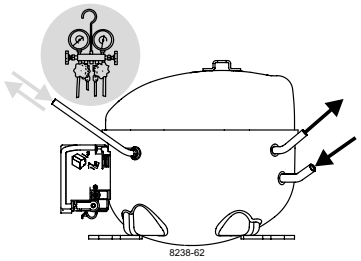
RSCR



Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)





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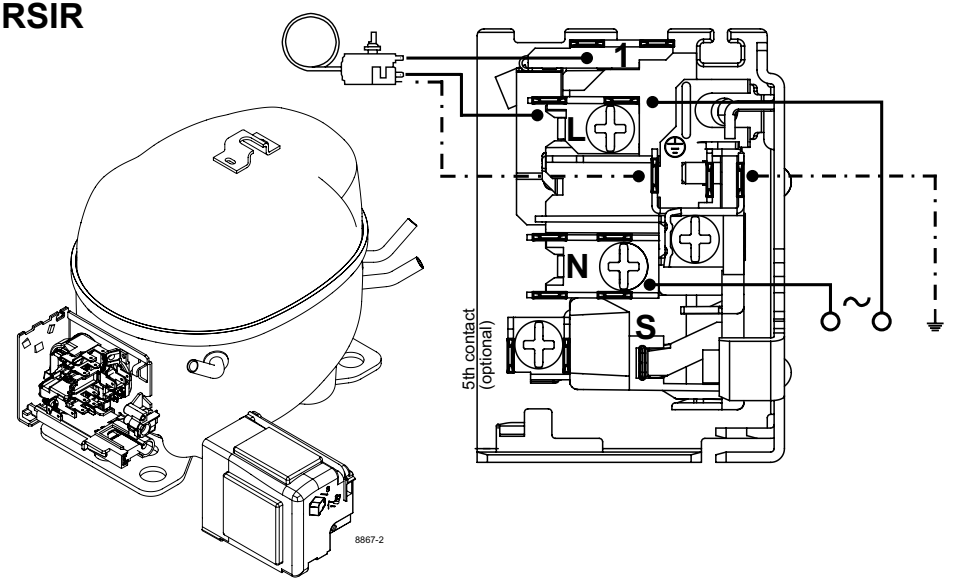
RSIR



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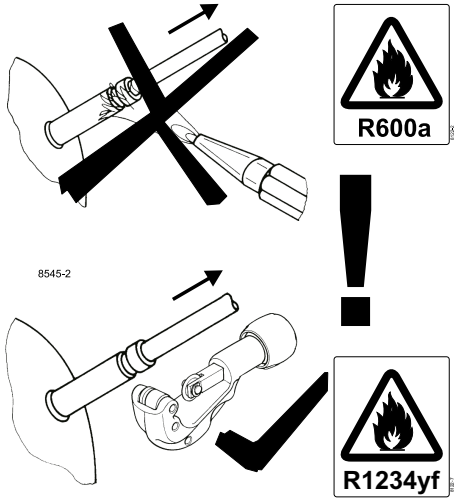

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be 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**