Single
Packs

Single Pack HMK12AA 220-240V 50Hz RSIR

Single pack code number: **195B4544**

Position	Title	Code	Amount
1	Compressor HMK12AA	16229100	1
2	Terminal board 4.8mm	15164700	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
HMK12AA

Sales code:
16229100

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**9.00 kg / 19.84lbs**
Displacement	**11.20 cm3 / 0.68cu.in**
Compressors on pallet	**100**

General – Configurations With HMK12AA

–	**Conf. 1**
Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	187-264 V
Approvals	VDE
Starting torque	LST
Refrigerant	R600a
Application	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
HMK12AA

Sales code:
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Compressor Design

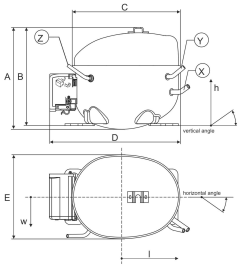
Oil type	**Mineral**	Winding resistance main	**15.7 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**12.6 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,560 cm3 / 52.75fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

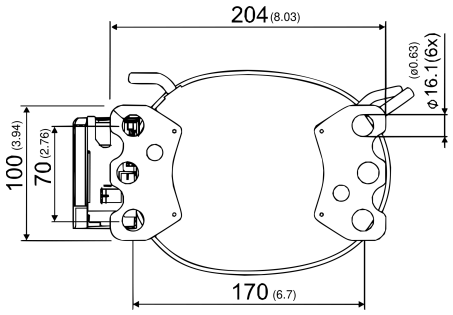
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



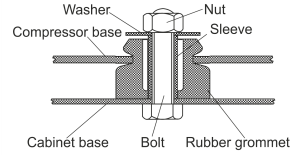
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.16–6.24 / 0.24–0.25in	øi 5.1–5.2 / 0.20–0.20in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	54°	35°	45°
Vertical angle ±2°	35°	40°	35°
Position l/h/w [mm]	120/92/56.7 / 4.72/3.62/2.23in	112/105.5/81 / 4.41/4.15/3.19in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

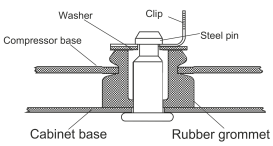


Dimensions in mm [in]

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
HMK12AA Configuration 1

Sales code:
16229100

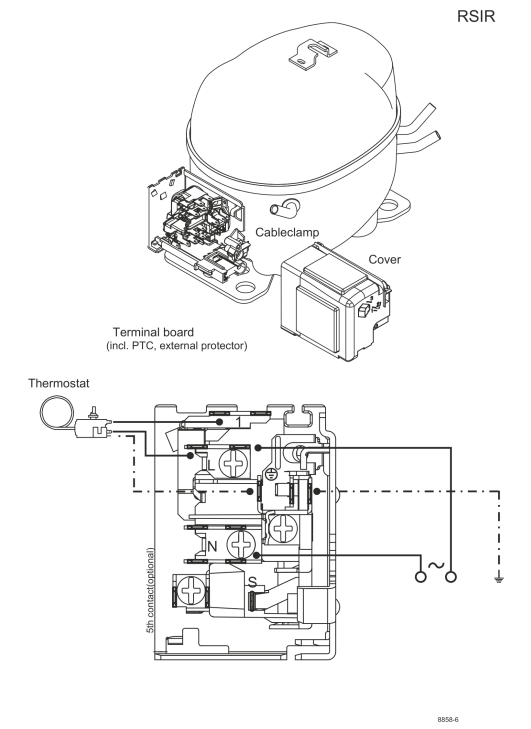
Configuration

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))	**6.2 A**
RLA (rated load amps / 1s/ U(N))	**1.2 A**
Cut in current (U(N))	**12.9 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

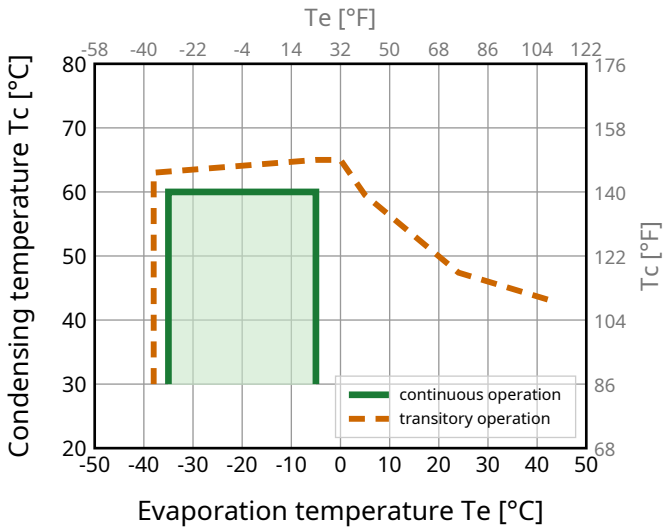


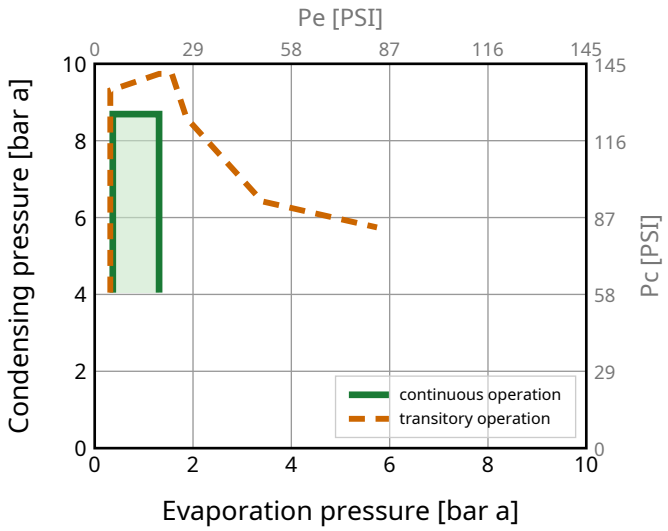
View full size

Components
. terminal board (PTC, 4.8mm) 15164700
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

Alternative components
. terminal board (PTC, 6.3mm) 15588600

Operation Pressure Range





Model
HMK12AA Configuration 1

Sales code:
16229100

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	**198**	675	170	**1.53**	5.22	129	0.87	2.13	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**149**	508	128	**1.20**	4.10	124	0.84	1.94	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**94**	320	81	**1.08**	3.67	87	0.72	1.14	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**161**	550	139	**1.28**	4.38	126	0.86	2.35	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**212**	723	182	**1.75**	5.98	121	0.84	2.28	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**92**	313	79	**1.04**	3.54	88	0.71	1.09	**opt LBP**

Performance Tables

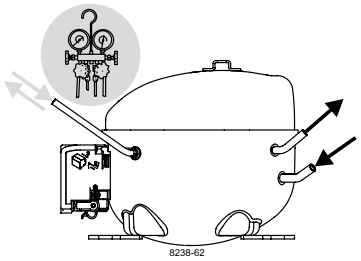
R600a, 220 V/50 Hz, RSIR, static

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	**92**	313	79	**1.04**	3.54	88	0.71	1.09
-30	-22	**129**	441	111	**1.25**	4.25	104	0.77	1.54
-25	-13	**172**	586	148	**1.45**	4.95	118	0.83	2.04
-20	-4	**219**	747	188	**1.65**	5.64	132	0.89	2.61
-15	5	**270**	923	233	**1.85**	6.33	146	0.96	3.23
-10	14	**327**	1115	281	**2.06**	7.03	158	1.03	3.91
-5	23	**387**	1322	333	**2.27**	7.74	171	1.10	4.65

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

-35	-31	**82**	278	70	**0.90**	3.06	91	0.69	1.06
-30	-22	**112**	384	97	**1.05**	3.58	107	0.77	1.46
-25	-13	**149**	508	128	**1.20**	4.10	124	0.84	1.94
-20	-4	**191**	652	164	**1.35**	4.62	141	0.93	2.49
-15	5	**238**	813	205	**1.50**	5.13	159	1.01	3.12
-10	14	**291**	993	250	**1.65**	5.63	176	1.10	3.82
-5	23	**349**	1191	300	**1.79**	6.11	195	1.19	4.59



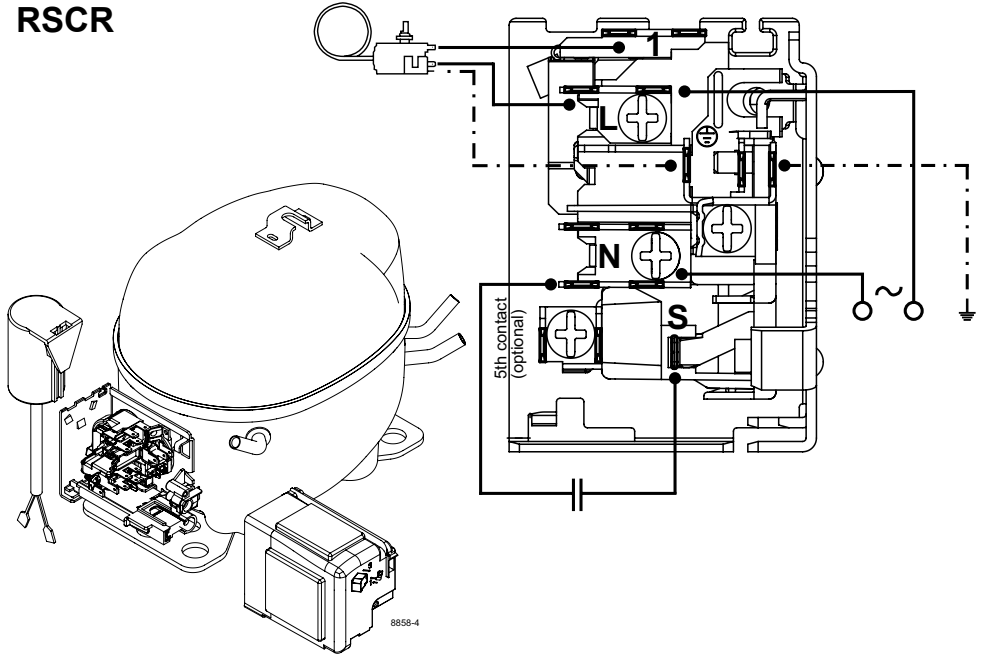
K-Series Compressors
GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

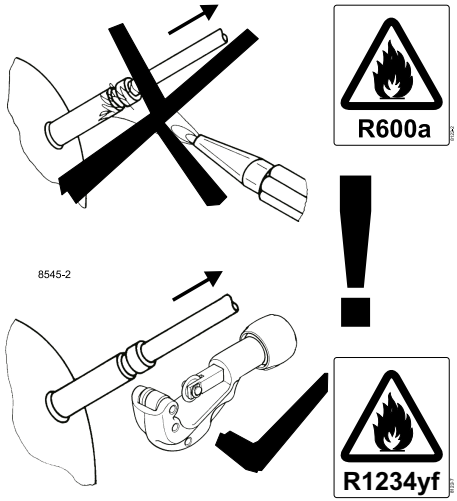
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

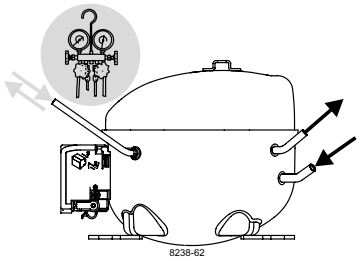
RSCR



Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)





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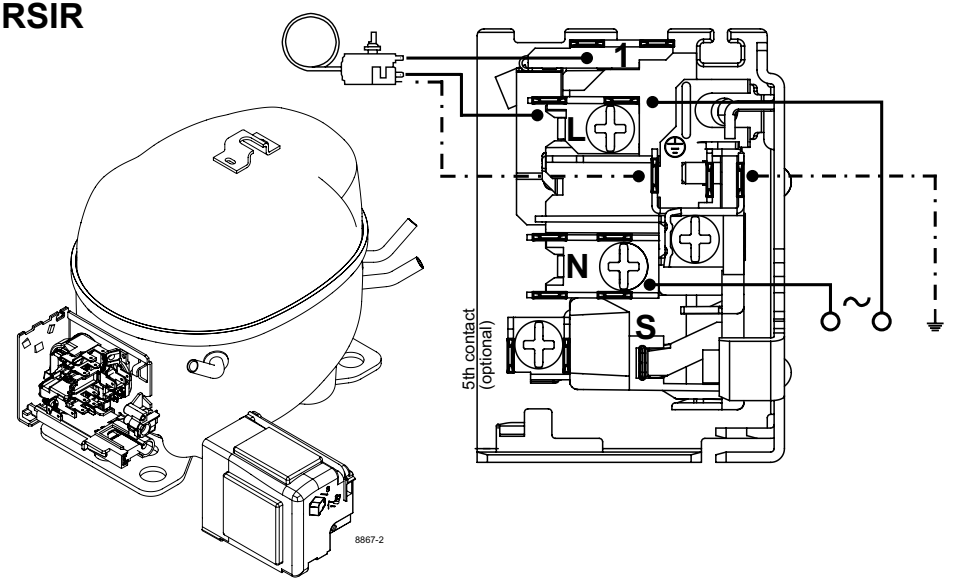
RSIR



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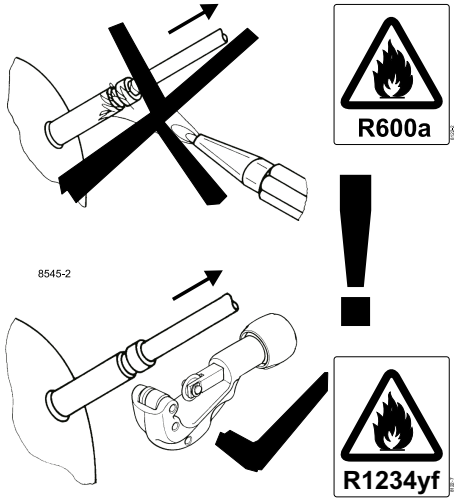

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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