Single
Packs

Single Pack HXK87AT 200-240V 50Hz / 208-230V 60Hz RSIR

Single pack code number: **195B4618**

Position	Title	Code	Amount
1	Compressor HXK87AT	16408900	1
2	Terminal board 6.3mm	16403700	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	Clip	10633900	4
9	Steel pin	10634100	4
10	Washer	10634300	4
11	Rubber grommet 16mm	11322600	4

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

Model
HXK87AT

Sales code:
16408900

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**8.60 kg / 18.96lbs**
Displacement	**8.80 cm3 / 0.54cu.in**
Compressors on pallet	**100**

General – Configurations With HXK87AT

–	Conf. 1	Conf. 2	Conf. 3
Motor configuration	RSCR	RSIR	RSCR
Power supply (nominal)	200-240 V/50 Hz	200-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1	1
Voltage range	170-264 V	170-264 V	198-253 V
Approvals	VDE	VDE	VDE
Starting torque	LST	LST	LST
Refrigerant	R600a	R600a	R600a
Application	LBP	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
HXK87AT

Sales code:
16408900

Compressor Design

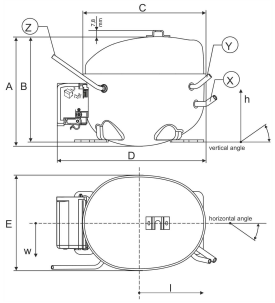
Oil type	**Mineral**	Winding resistance main	**18.8 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**10.7 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,620 cm3 / 54.78fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

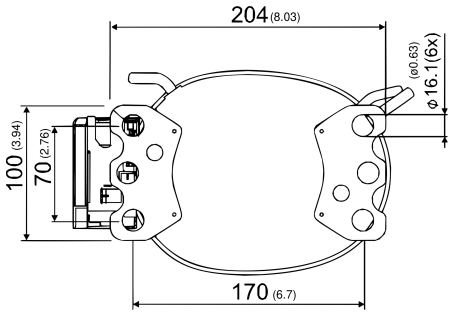
A Height	**174mm / 6.85in**
B Height	**167mm / 6.57in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



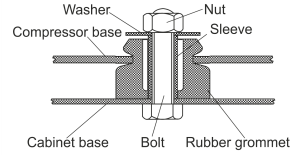
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

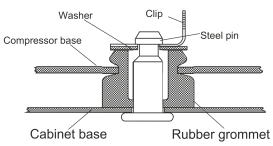


Dimensions in mm [in]

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
HXK87AT Configuration 1

Sales code:
16408900

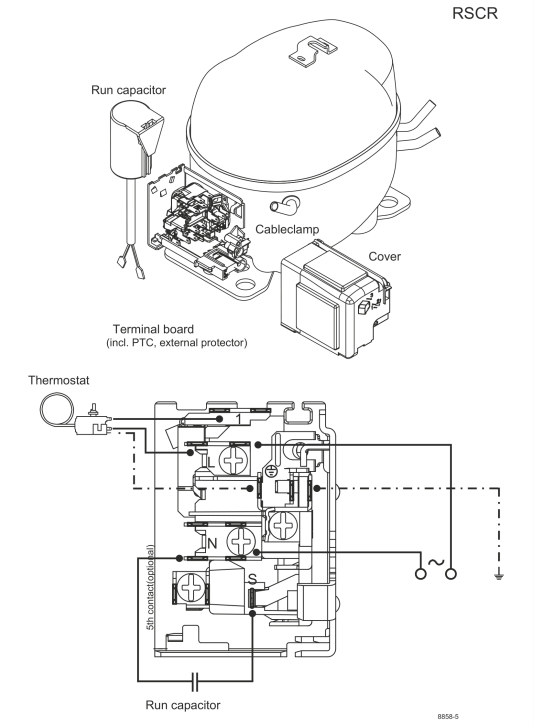
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**170-264 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**PTC**
Run capacitor	**4 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**6.6 A**
RLA (rated load amps / 1s/ U(N))	**0.6 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

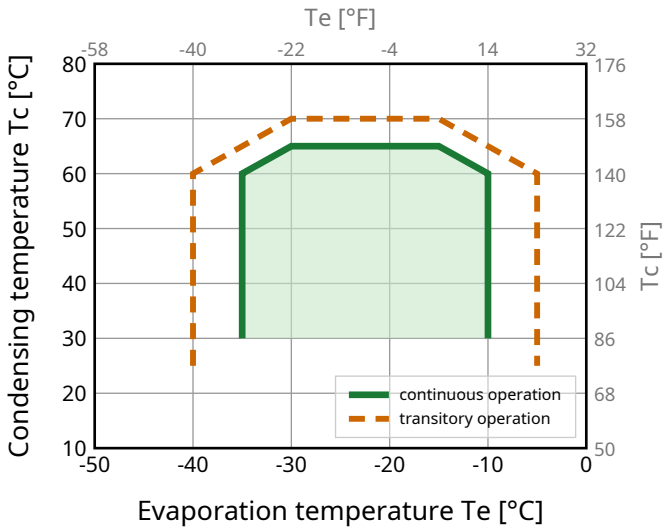


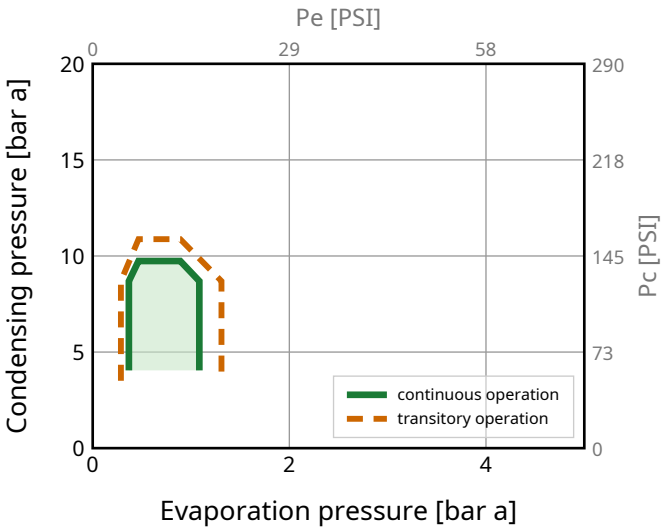
View full size

Components
. terminal board (PTC, 6.3mm) 16413200
. run capacitor (4µF, 6.3mm) 15186801
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. screw uni en iso 4757 10641201

Operation Pressure Range





Model Sales code:

HXK87AT Configuration 1 **16408900**

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	**155**	528	133	**1.71**	5.83	91	0.47	1.66	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**117**	398	100	**1.34**	4.57	87	0.45	1.52	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**91**	311	78	**1.35**	4.60	68	0.32	1.11	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**126**	428	108	**1.43**	4.87	88	0.46	1.83	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**163**	555	140	**1.95**	6.64	84	0.44	1.75	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**89**	302	76	**1.28**	4.38	69	0.30	1.05	**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	**89**	302	76	**1.28**	4.38	69	0.30	1.05
-30	-22	**106**	362	91	**1.41**	4.82	75	0.38	1.26
-25	-13	**133**	455	115	**1.61**	5.48	83	0.43	1.59
-20	-4	**170**	580	146	**1.84**	6.28	92	0.48	2.03
-15	5	**215**	734	185	**2.10**	7.15	103	0.52	2.57
-10	14	**268**	913	230	**2.37**	8.07	113	0.56	3.21

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

-35	-31	**73**	248	63	**1.05**	3.59	69	0.26	0.94
-30	-22	**91**	310	78	**1.18**	4.01	77	0.36	1.18
-25	-13	**117**	398	100	**1.34**	4.57	87	0.45	1.52
-20	-4	**150**	511	129	**1.53**	5.21	98	0.51	1.96
-15	5	**190**	647	163	**1.72**	5.87	110	0.56	2.48
-10	14	**235**	802	202	**1.92**	6.55	122	0.61	3.08

Model
HXK87AT Configuration 2

Sales code:
16408900

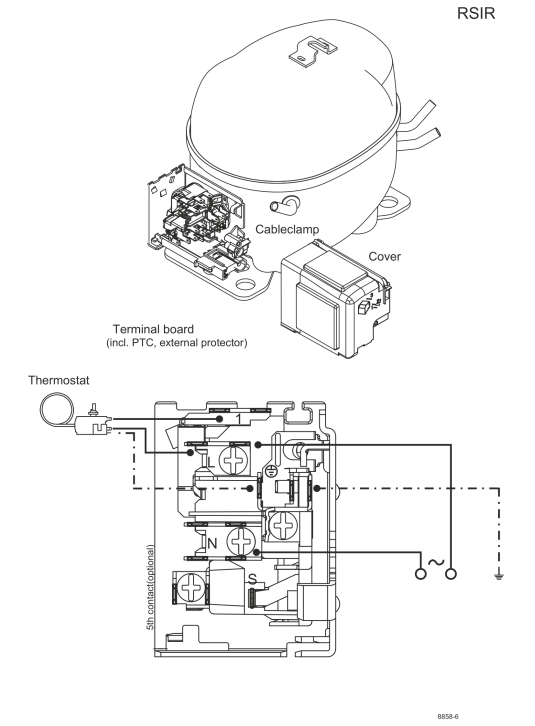
Configuration

Motor configuration	**RSIR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**170-264 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**PTC**
Run capacitor	**-/-**
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

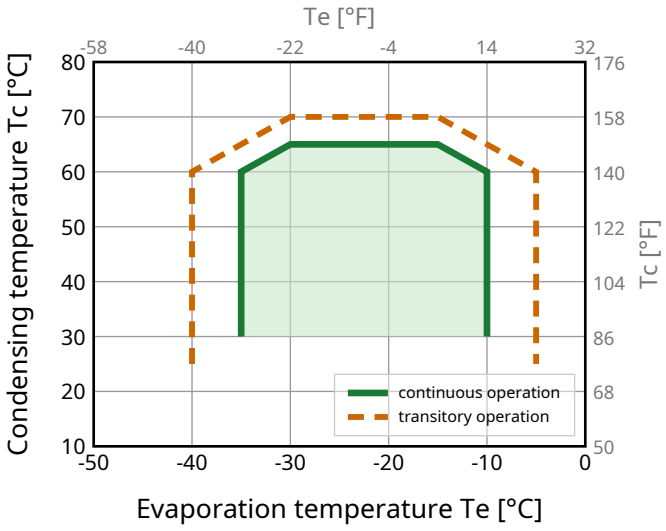
Electrical Accessories / Wiring Diagram

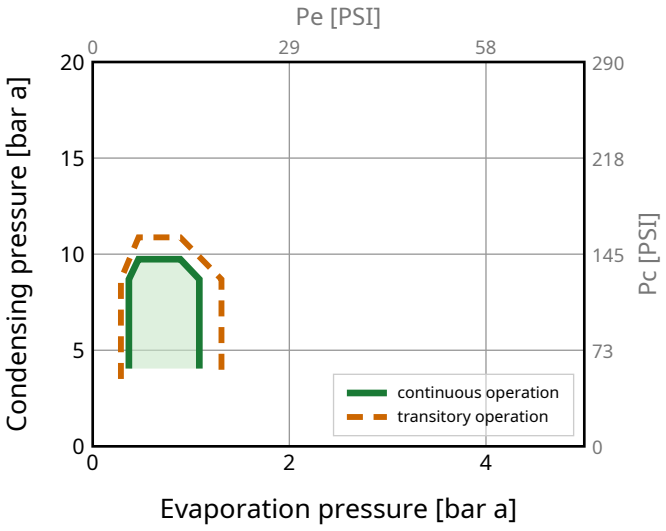


View full size

Components
. terminal board (PTC, 6.3mm) 16413200
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

Operation Pressure Range





Model Sales code:

HXK87AT Configuration 2 **16408900**

Standard Conditions

R600a, 200 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	**154**	524	132	**1.67**	5.68	92	0.48	1.65	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**116**	395	100	**1.31**	4.46	89	0.45	1.51	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**91**	309	78	**1.31**	4.48	69	0.32	1.10	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**125**	425	107	**1.39**	4.74	90	0.47	1.82	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**162**	551	139	**1.90**	6.47	85	0.45	1.74	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**88**	300	76	**1.25**	4.27	70	0.31	1.04	**opt LBP**

Performance Tables

R600a, 200 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	**88**	300	76	**1.25**	4.27	70	0.31	1.04
-30	-22	**105**	359	91	**1.38**	4.70	76	0.39	1.25
-25	-13	**132**	452	114	**1.57**	5.35	84	0.44	1.58
-20	-4	**169**	576	145	**1.79**	6.12	94	0.49	2.01
-15	5	**213**	728	184	**2.04**	6.97	104	0.53	2.55
-10	14	**266**	907	229	**2.31**	7.86	115	0.58	3.18

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

-35	-31	**72**	246	62	**1.03**	3.50	70	0.26	0.94
-30	-22	**90**	307	77	**1.15**	3.91	79	0.37	1.17
-25	-13	**116**	395	100	**1.31**	4.46	89	0.45	1.51
-20	-4	**149**	508	128	**1.49**	5.07	100	0.52	1.94
-15	5	**188**	642	162	**1.68**	5.72	112	0.57	2.46
-10	14	**233**	796	201	**1.87**	6.39	125	0.62	3.06

Model
HXK87AT Configuration 3

Sales code:
16408900

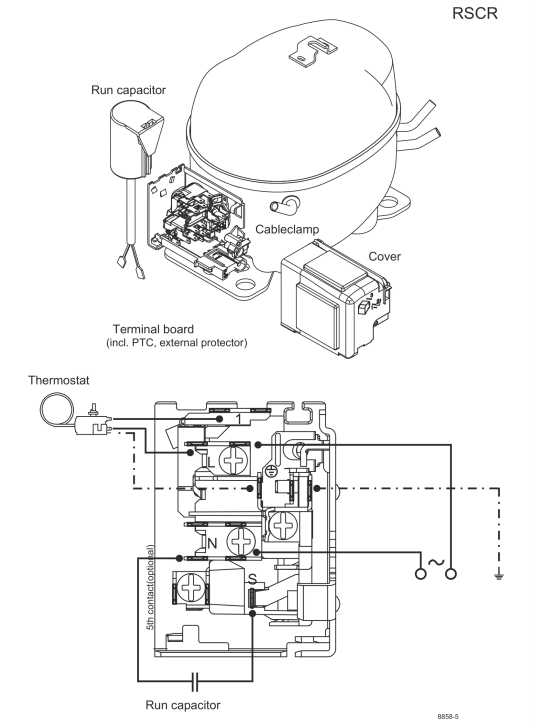
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**198-253 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**PTC**
Run capacitor	**4 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

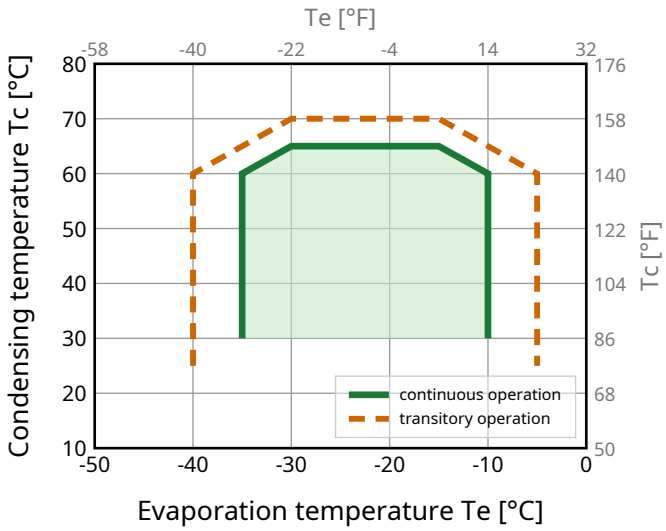


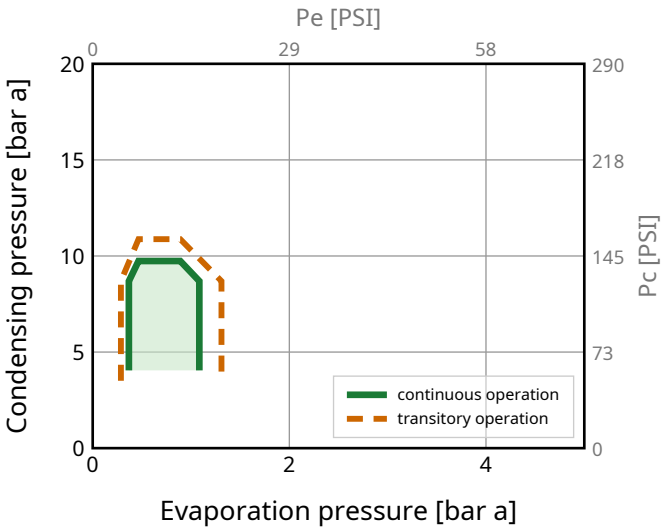
View full size

Components
. terminal board (PTC, 6.3mm) 16413200
. run capacitor (4µF, 6.3mm) 15186801
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HXK87AT Configuration 3

Sales code:
16408900

Standard Conditions

R600a, 220 V/60 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	**184**	626	158	**1.77**	6.03	104	0.54	1.97	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**138**	473	119	**1.39**	4.73	100	0.51	1.80	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**107**	365	92	**1.38**	4.69	78	0.36	1.30	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**148**	506	128	**1.47**	5.01	101	0.53	2.16	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**191**	651	164	**1.99**	6.78	96	0.51	2.05	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**104**	357	90	**1.32**	4.50	79	0.35	1.24	**opt LBP**

Performance Tables

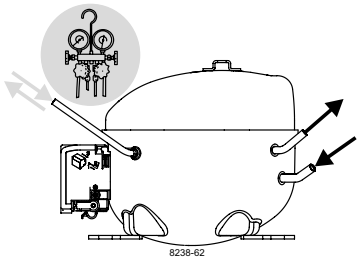
R600a, 220 V/60 Hz, RSCR, static

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	**104**	357	90	**1.32**	4.50	79	0.35	1.24
-30	-22	**125**	426	107	**1.45**	4.94	86	0.43	1.49
-25	-13	**157**	536	135	**1.65**	5.62	95	0.50	1.87
-20	-4	**200**	682	172	**1.89**	6.44	106	0.55	2.38
-15	5	**253**	863	218	**2.15**	7.33	118	0.60	3.02
-10	14	**315**	1075	271	**2.42**	8.27	130	0.65	3.77

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

-35	-31	**87**	297	75	**1.10**	3.74	79	0.30	1.13
-30	-22	**108**	368	93	**1.22**	4.16	89	0.42	1.41
-25	-13	**138**	473	119	**1.39**	4.73	100	0.51	1.80
-20	-4	**178**	606	153	**1.57**	5.37	113	0.58	2.32
-15	5	**224**	766	193	**1.77**	6.06	126	0.64	2.94
-10	14	**278**	949	239	**1.98**	6.76	140	0.70	3.65



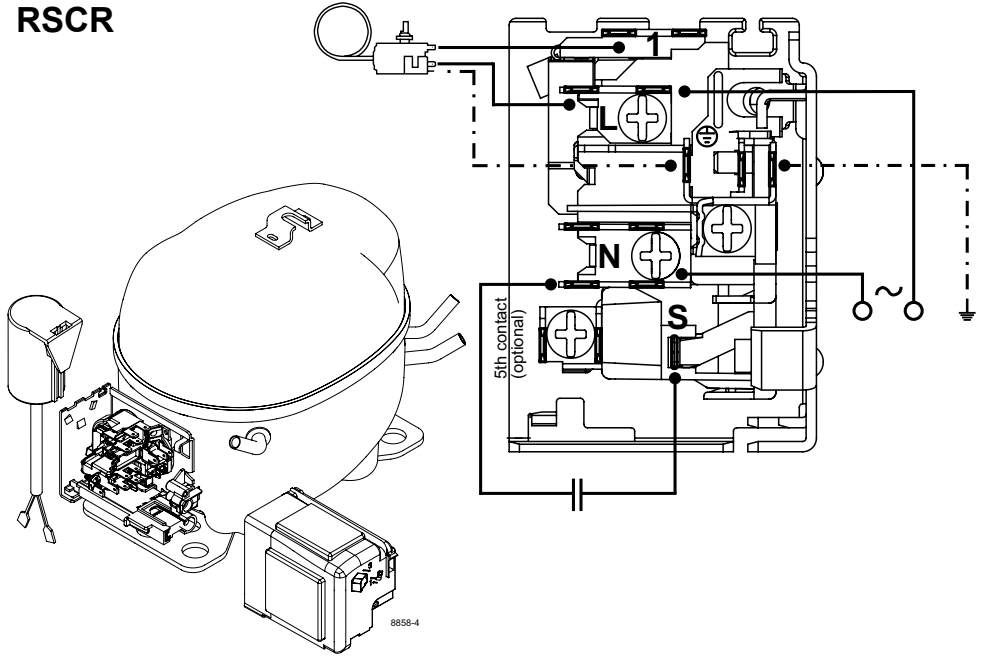
K-Series Compressors
GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

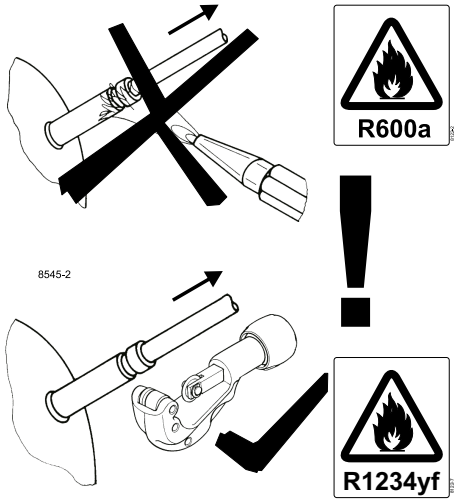
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

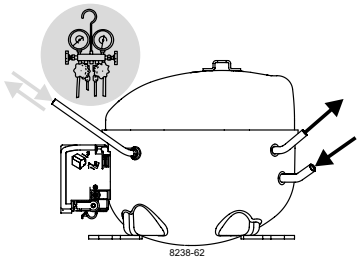
RSCR



Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)





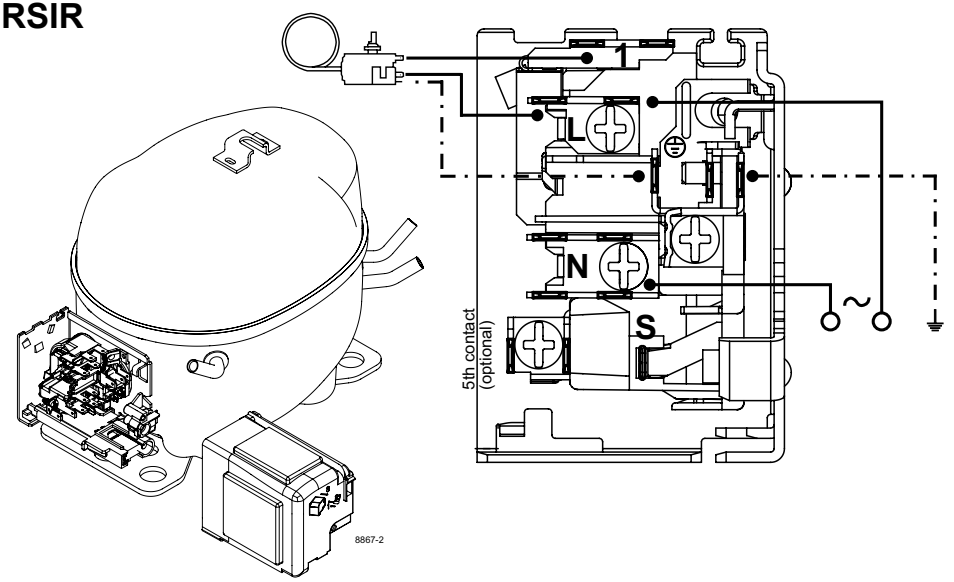
K-Series Compressors
GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

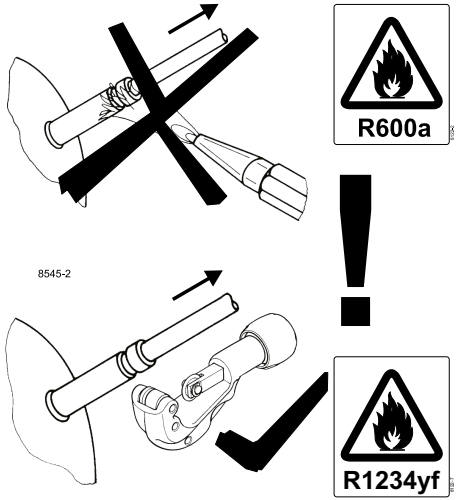
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

RSIR



Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)



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**