Single
Packs

Single Pack HXK12AT 200-240V 50Hz / 208-230V 60Hz RSIR

Single pack code number: **195B4620**

Position	Title	Code	Amount
1	Compressor HXK12AT	16470500	1
2	Terminal board 6.3mm	16425700	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

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Model
HXK12AT

Sales code:
16470500

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**8.90 kg / 19.62lbs**
Displacement	**11.10 cm3 / 0.68cu.in**
Compressors on pallet	**100**

General – Configurations With HXK12AT

–	Conf. 1	Conf. 2	Conf. 3
Motor configuration	RSIR	RSCR	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
HXK12AT

Sales code:
16470500

Compressor Design

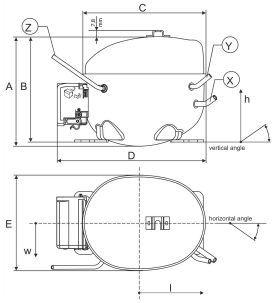
Oil type	**Mineral**	Winding resistance main	**12.4 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**15.3 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,560 cm3 / 52.75fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

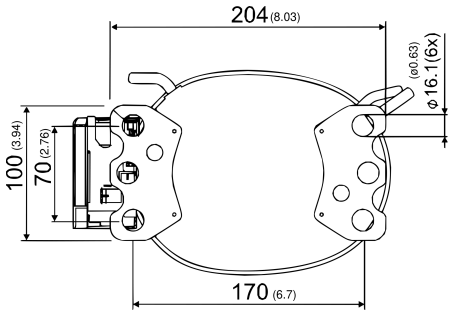
A Height	**174mm / 6.85in**
B Height	**167mm / 6.57in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



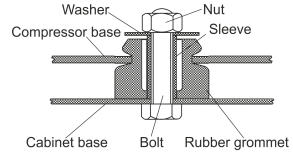
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

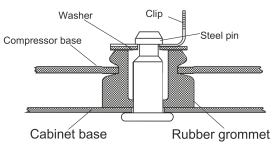


Dimensions in mm [in]

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
HXK12AT Configuration 1

Sales code:
16470500

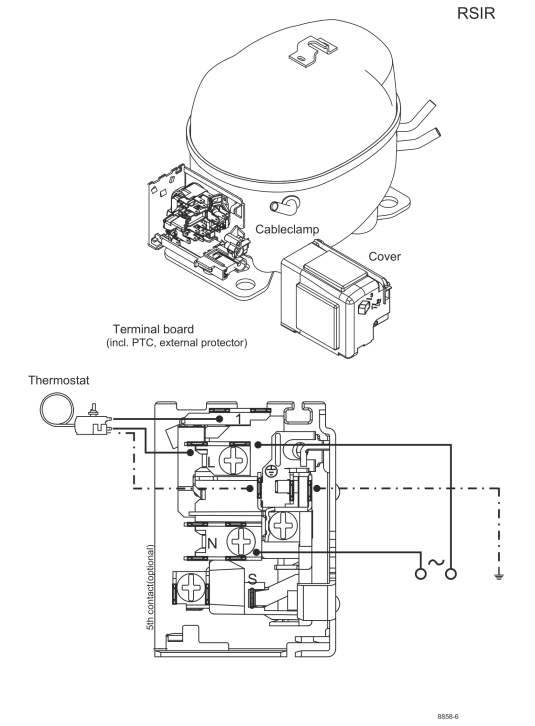
Configuration

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



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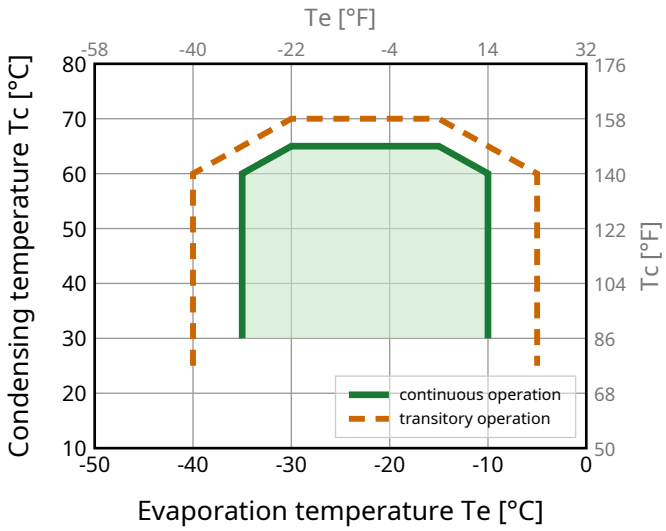
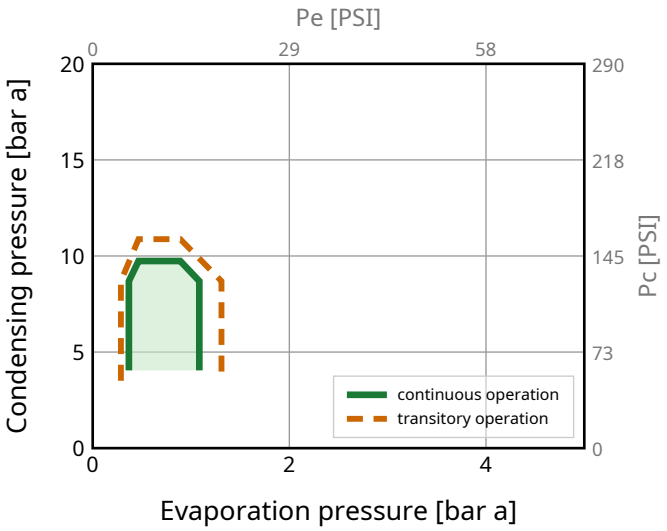
Components
. terminal board (PTC, 4.8mm) 16425900
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

Alternative components
. terminal board (PTC, 6.3mm) 16425700

Operation Pressure Range





Model Sales code:

HXK12AT Configuration 1 **16470500**

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	**198**	676	170	**1.67**	5.69	119	0.63	2.13	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**150**	511	129	**1.30**	4.43	115	0.61	1.95	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**114**	388	98	**1.20**	4.10	95	0.55	1.38	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**161**	548	138	**1.41**	4.81	114	0.61	2.34	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**208**	710	179	**1.93**	6.59	108	0.60	2.24	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**110**	377	95	**1.13**	3.87	98	0.55	1.31	**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	**110**	377	95	**1.13**	3.87	98	0.55	1.31
-30	-22	**136**	462	117	**1.35**	4.60	100	0.56	1.61
-25	-13	**171**	584	147	**1.59**	5.43	108	0.59	2.04
-20	-4	**217**	741	187	**1.83**	6.26	118	0.64	2.59
-15	5	**274**	935	236	**2.06**	7.04	133	0.70	3.27
-10	14	**341**	1164	293	**2.28**	7.77	150	0.77	4.09

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

-35	-31	**94**	321	81	**0.91**	3.12	103	0.57	1.22
-30	-22	**117**	401	101	**1.10**	3.74	107	0.58	1.53
-25	-13	**150**	511	129	**1.30**	4.43	115	0.61	1.95
-20	-4	**191**	652	164	**1.50**	5.10	128	0.67	2.50
-15	5	**242**	825	208	**1.68**	5.74	144	0.73	3.16
-10	14	**301**	1028	259	**1.85**	6.32	163	0.82	3.95

Model

HXK12AT Configuration 2

Sales code:

16470500

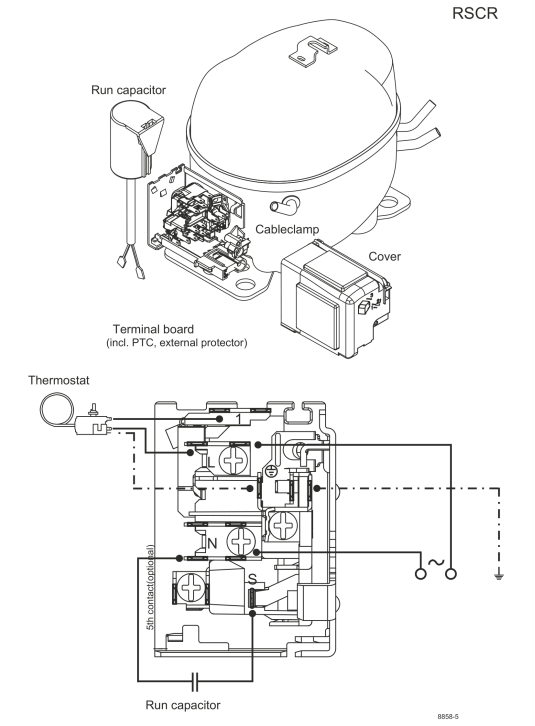
Configuration

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))	**7.3 A**
RLA (rated load amps / 1s/ U(N))	**0.6 A**
Cut in current (U(N))	**11.1 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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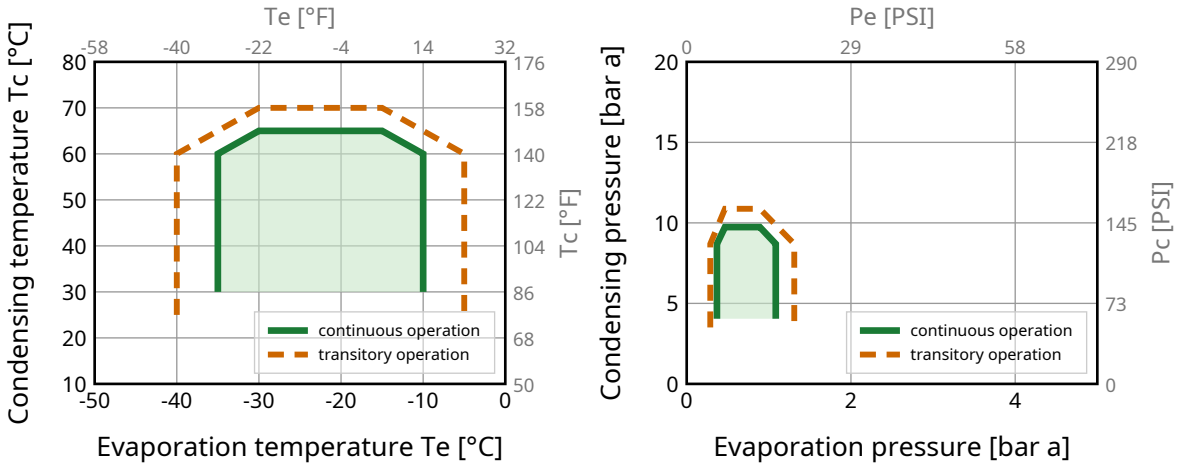
Components
. terminal board (PTC, 4.8mm) 16425900
. run capacitor (4µF, 4.8mm) 10693001
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. terminal board (PTC, 6.3mm) 16425700
. run capacitor (4µF, 4.8mm) 16344500
. run capacitor (4µF, 6.3mm) 15186801
. screw uni en iso 4757 10641201

Operation Pressure Range



Model
HXK12AT Configuration 2

Sales code:
16470500

Standard Conditions

R600a, 200 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	**200**	682	172	**1.73**	5.91	116	0.60	2.15	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**151**	516	130	**1.35**	4.60	112	0.59	1.97	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**115**	392	99	**1.25**	4.25	92	0.53	1.40	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**162**	553	139	**1.46**	4.99	111	0.59	2.37	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**210**	717	181	**2.00**	6.84	105	0.57	2.26	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**112**	381	96	**1.18**	4.02	95	0.53	1.33	**opt LBP**

Performance Tables

R600a, 200 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	**112**	381	96	**1.18**	4.02	95	0.53	1.33
-30	-22	**137**	467	118	**1.40**	4.78	98	0.54	1.63
-25	-13	**173**	590	149	**1.65**	5.63	105	0.57	2.06
-20	-4	**219**	749	189	**1.90**	6.50	115	0.61	2.62
-15	5	**277**	944	238	**2.14**	7.31	129	0.67	3.31
-10	14	**345**	1176	296	**2.36**	8.06	146	0.74	4.13

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

-35	-31	**95**	324	82	**0.95**	3.24	100	0.55	1.24
-30	-22	**119**	405	102	**1.14**	3.89	104	0.56	1.54
-25	-13	**151**	516	130	**1.35**	4.60	112	0.59	1.97
-20	-4	**193**	659	166	**1.55**	5.30	124	0.64	2.52
-15	5	**244**	833	210	**1.75**	5.96	140	0.71	3.19
-10	14	**304**	1039	262	**1.92**	6.55	158	0.79	3.99

Model
HXK12AT Configuration 3

Sales code:
16470500

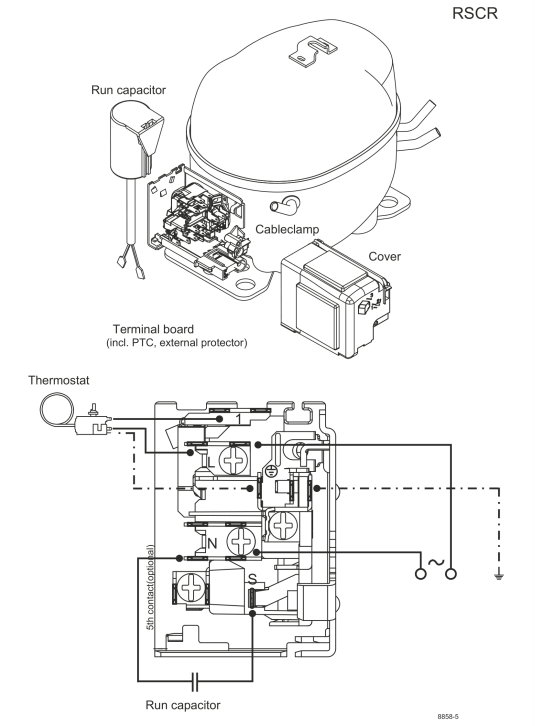
Configuration

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	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**8.2 A**
Cut in current (U(N))	**16.4 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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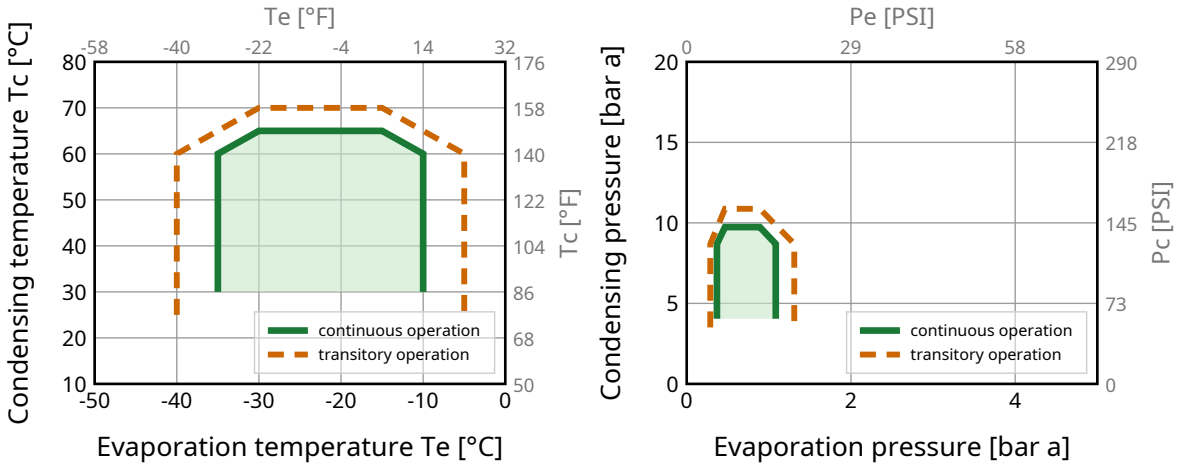
Components
. terminal board (PTC, 4.8mm) 16425900
. run capacitor (4µF, 4.8mm) 10693001
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. terminal board (PTC, 6.3mm) 16425700
. run capacitor (4µF, 4.8mm) 16344500
. run capacitor (4µF, 6.3mm) 15186801
. screw uni en iso 4757 10641201

Operation Pressure Range



Model
HXK12AT Configuration 3

Sales code:
16470500

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	**236**	804	203	**1.75**	5.96	135	0.71	2.53	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**178**	608	153	**1.36**	4.64	131	0.70	2.32	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**134**	458	115	**1.25**	4.26	107	0.62	1.63	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**190**	650	164	**1.47**	5.02	129	0.70	2.78	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**245**	837	211	**2.01**	6.85	122	0.68	2.64	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**131**	447	113	**1.19**	4.04	110	0.63	1.55	**opt LBP**

Performance Tables

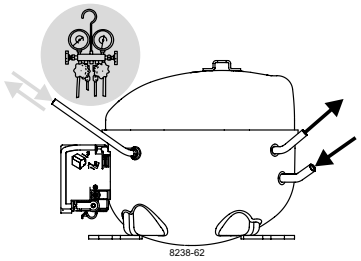
R600a, 220 V/60 Hz, RSCR, static

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	**131**	447	113	**1.19**	4.04	110	0.63	1.55
-30	-22	**160**	547	138	**1.41**	4.80	114	0.64	1.91
-25	-13	**202**	690	174	**1.66**	5.65	122	0.67	2.41
-20	-4	**257**	876	221	**1.91**	6.51	135	0.72	3.06
-15	5	**324**	1104	278	**2.14**	7.31	151	0.79	3.87
-10	14	**403**	1376	347	**2.36**	8.05	171	0.88	4.83

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

-35	-31	**112**	383	97	**0.96**	3.28	117	0.65	1.46
-30	-22	**140**	477	120	**1.15**	3.93	121	0.66	1.82
-25	-13	**178**	608	153	**1.36**	4.64	131	0.70	2.32
-20	-4	**227**	776	196	**1.56**	5.34	145	0.76	2.97
-15	5	**288**	981	247	**1.75**	5.99	164	0.84	3.76
-10	14	**359**	1224	308	**1.93**	6.57	186	0.93	4.70



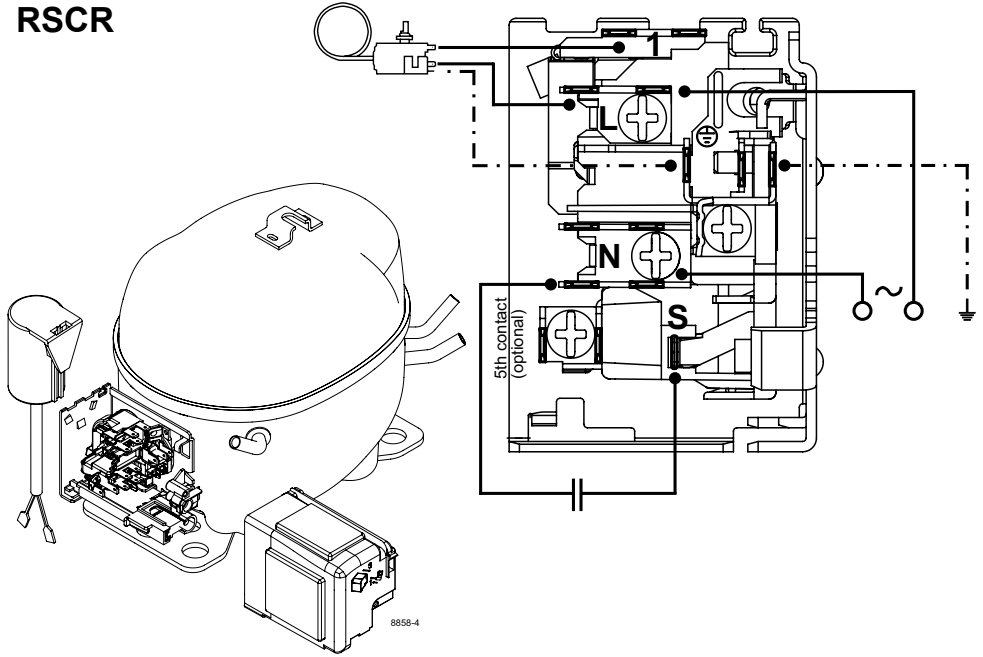
K-Series Compressors
GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

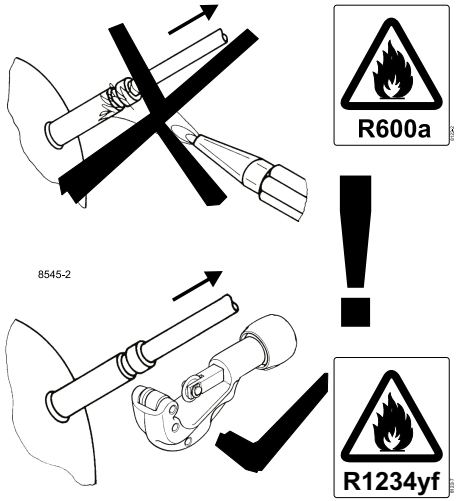
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

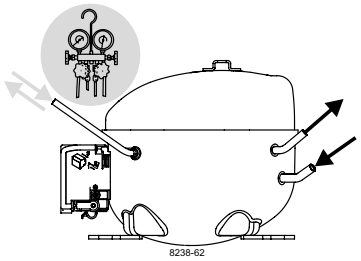
RSCR



Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)





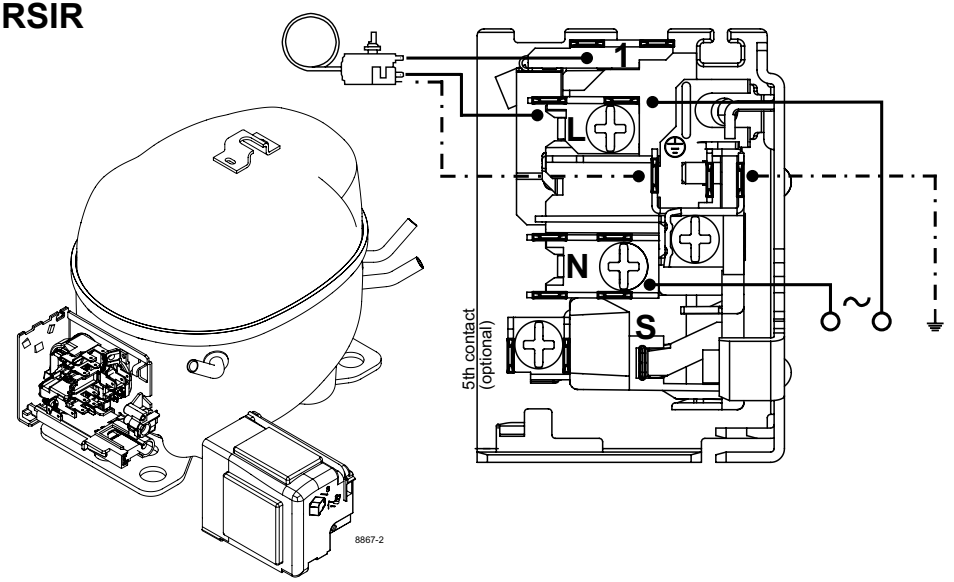
K-Series Compressors
GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

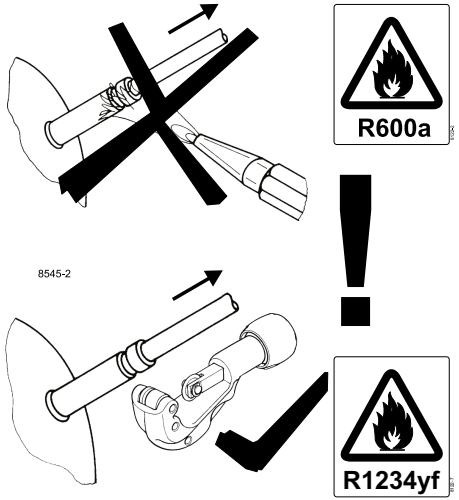
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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**