Single
Packs

Single Pack HTK70AA 220-240V 50Hz RSIR

Single pack code number: **195B4679**

Position	Title	Code	Amount
1	Compressor HTK70AA	16128400	1
2	Terminal board 4.8mm	15163800	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
HTK70AA

Sales code:
16128400

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 HTK70AA

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	RSIR	RSCR	RSIR	RSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1	1	1
Voltage range	187-264 V	187-264 V	187-264 V	187-264 V
Approvals	VDE	VDE	VDE	VDE
Starting torque	LST	LST	LST	LST
Refrigerant	R600a	R600a	R600a	R600a
Application	LBP	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
HTK70AA

Sales code:
16128400

Compressor Design

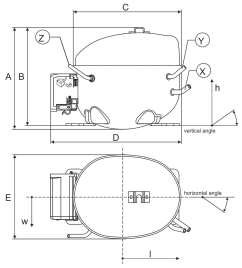
Oil type	**Mineral**	Winding resistance main	**34 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**15.5 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,500 cm3 / 50.72fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

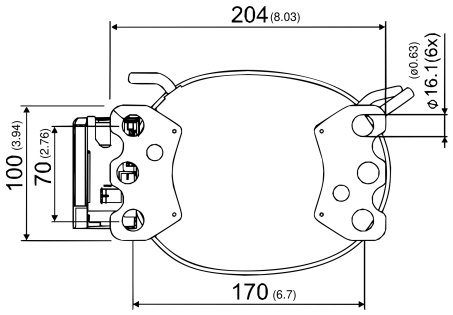
A Height	**174mm / 6.85in**
B Height	**167mm / 6.57in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



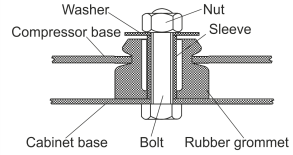
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.16–6.24 / 0.24–0.25in	øi 5.1–5.2 / 0.20–0.20in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	54°	35°	45°
Vertical angle ±2°	35°	40°	35°
Position l/h/w [mm]	120/92/56.7 / 4.72/3.62/2.23in	112/105.5/81 / 4.41/4.15/3.19in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

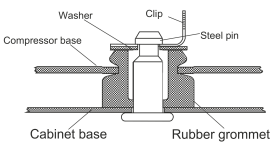


Dimensions in mm [in]

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
HTK70AA Configuration 1

Sales code:
16128400

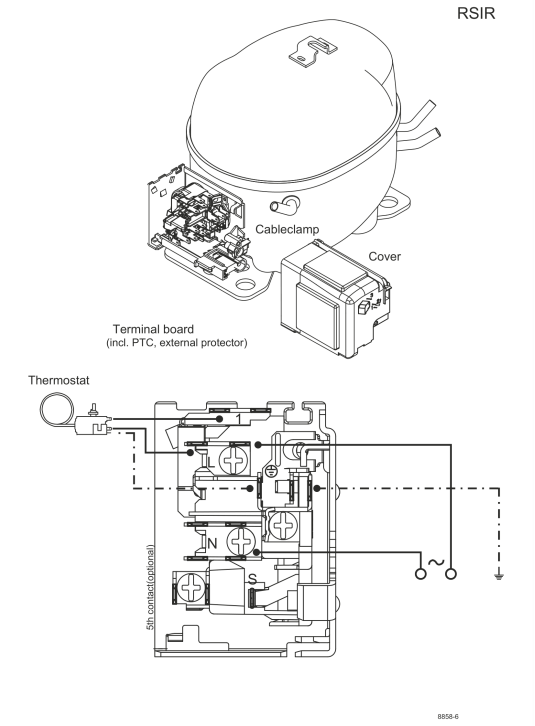
Configuration

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	**-/-**
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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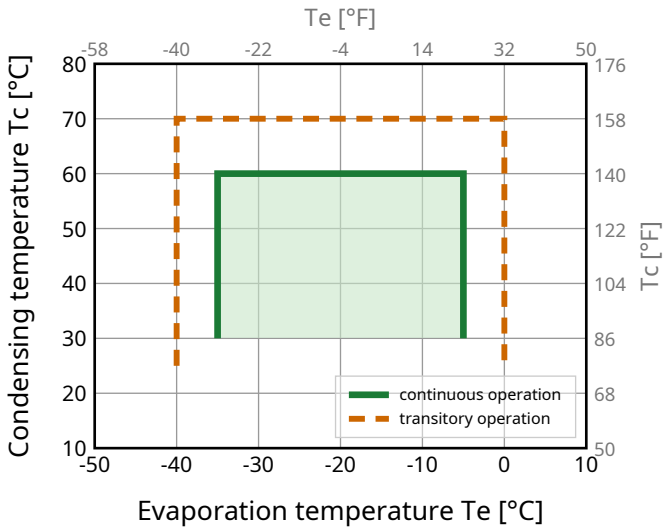
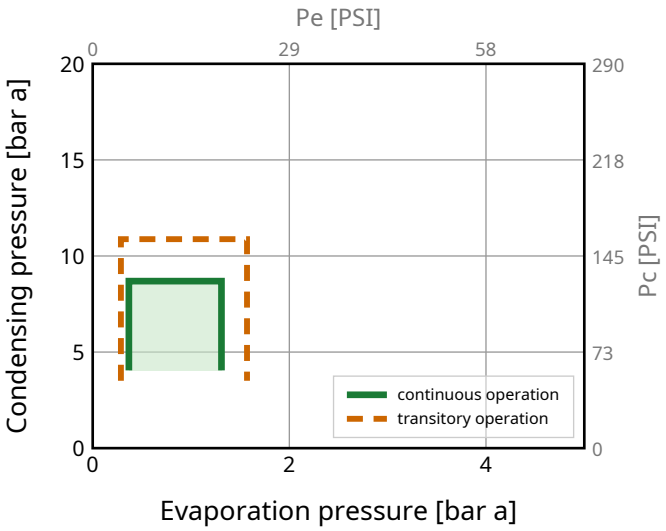
Components
. terminal board (PTC, 4.8mm) 15163800
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

Alternative components
. terminal board (PTC, 6.3mm) 15162300

Operation Pressure Range





Model
HTK70AA Configuration 1

Sales code:
16128400

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	**117**	399	101	**1.61**	5.49	73	0.42	1.26	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**87**	296	75	**1.24**	4.23	70	0.40	1.13	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**57**	194	49	**1.13**	3.84	50	0.34	0.69	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**94**	321	81	**1.35**	4.62	70	0.41	1.37	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**122**	416	105	**1.82**	6.22	67	0.40	1.31	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**54**	184	46	**1.07**	3.65	50	0.34	0.64	**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	**54**	184	46	**1.07**	3.65	50	0.34	0.64
-30	-22	**73**	248	63	**1.25**	4.25	58	0.37	0.87
-25	-13	**99**	336	85	**1.49**	5.10	66	0.40	1.17
-20	-4	**130**	443	112	**1.78**	6.06	73	0.43	1.55
-15	5	**165**	564	142	**2.08**	7.08	80	0.46	1.98
-10	14	**204**	695	175	**2.37**	8.10	86	0.49	2.44
-5	23	**243**	830	209	**2.66**	9.09	91	0.52	2.92

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

-35	-31	**44**	149	37	**0.89**	3.02	49	0.33	0.57
-30	-22	**62**	212	53	**1.04**	3.53	60	0.37	0.81
-25	-13	**87**	296	75	**1.24**	4.23	70	0.40	1.13
-20	-4	**116**	396	100	**1.47**	5.00	79	0.44	1.52
-15	5	**149**	508	128	**1.70**	5.78	88	0.48	1.95
-10	14	**184**	627	158	**1.92**	6.55	96	0.53	2.41
-5	23	**219**	748	188	**2.13**	7.28	103	0.57	2.88

Model
HTK70AA Configuration 2

Sales code:
16128400

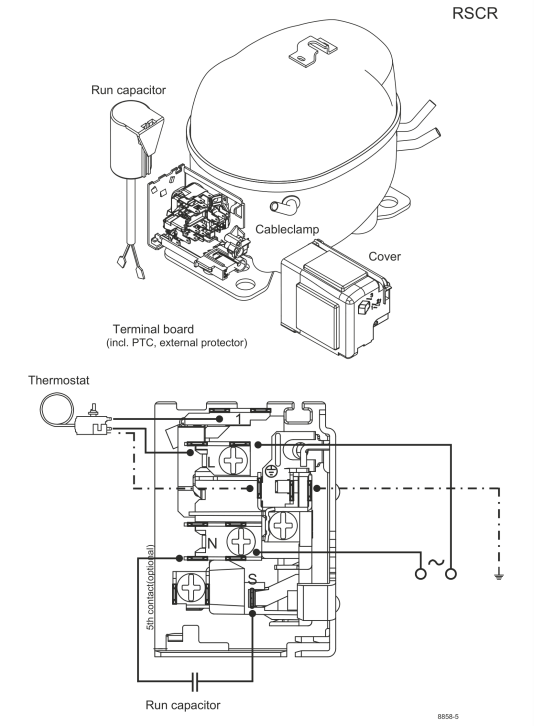
Configuration

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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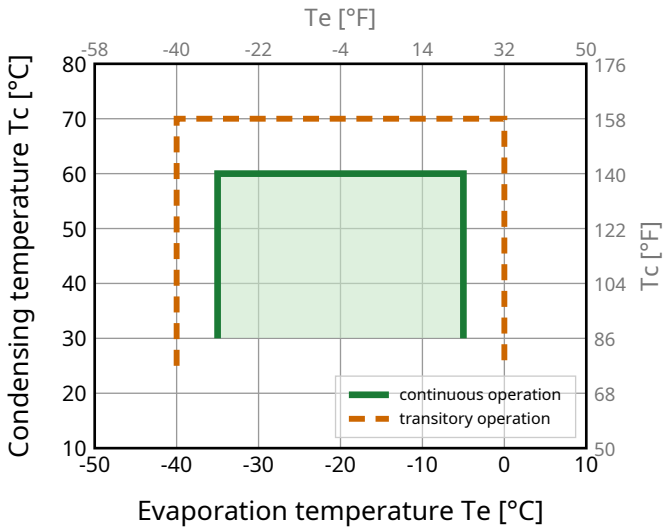
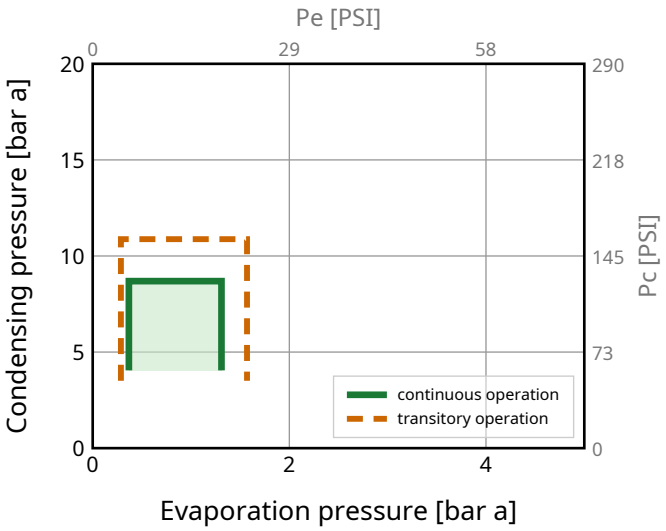
Components
. terminal board (PTC, 4.8mm) 15163800
. run capacitor (3µF, 4.8mm) 10692902
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. screw uni en iso 4757 10641201

Operation Pressure Range





Model

HTK70AA Configuration 2

Sales code:

16128400

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**	398	100	**1.66**	5.67	70	0.31	1.25	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**87**	295	74	**1.28**	4.38	68	0.30	1.13	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**57**	194	49	**1.18**	4.03	48	0.26	0.69	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**94**	321	81	**1.40**	4.78	67	0.31	1.37	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**122**	416	105	**1.91**	6.50	64	0.30	1.31	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**54**	184	46	**1.12**	3.83	48	0.25	0.64	**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	**54**	184	46	**1.12**	3.83	48	0.25	0.64
-30	-22	**73**	248	63	**1.30**	4.44	56	0.27	0.86
-25	-13	**98**	336	85	**1.56**	5.31	63	0.30	1.17
-20	-4	**130**	443	112	**1.84**	6.29	70	0.32	1.55
-15	5	**165**	564	142	**2.14**	7.32	77	0.35	1.97
-10	14	**203**	694	175	**2.44**	8.33	83	0.37	2.44
-5	23	**243**	829	209	**2.73**	9.30	89	0.40	2.92

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

-35	-31	**44**	149	37	**0.91**	3.12	48	0.25	0.57
-30	-22	**62**	212	53	**1.07**	3.66	58	0.28	0.81
-25	-13	**87**	295	74	**1.28**	4.38	68	0.30	1.13
-20	-4	**116**	396	100	**1.51**	5.16	77	0.34	1.51
-15	5	**149**	508	128	**1.74**	5.95	85	0.37	1.95
-10	14	**184**	626	158	**1.97**	6.71	93	0.40	2.41
-5	23	**219**	747	188	**2.17**	7.42	101	0.43	2.88

Model

HTK70AA Configuration 3

Sales code:

16128400

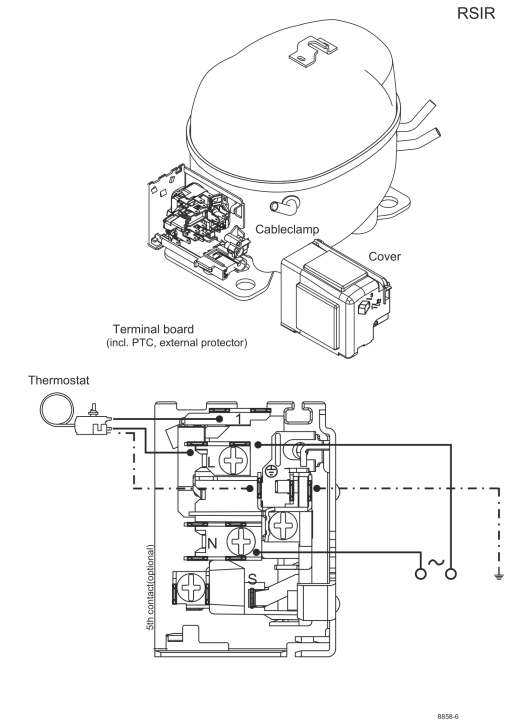
Configuration

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	**-/-**
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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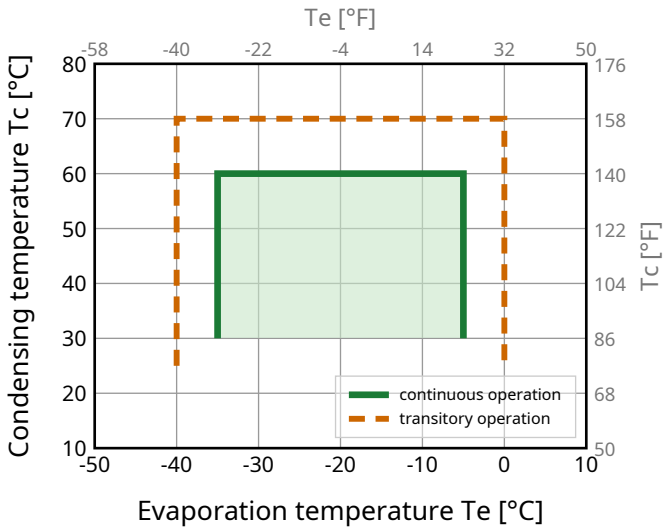
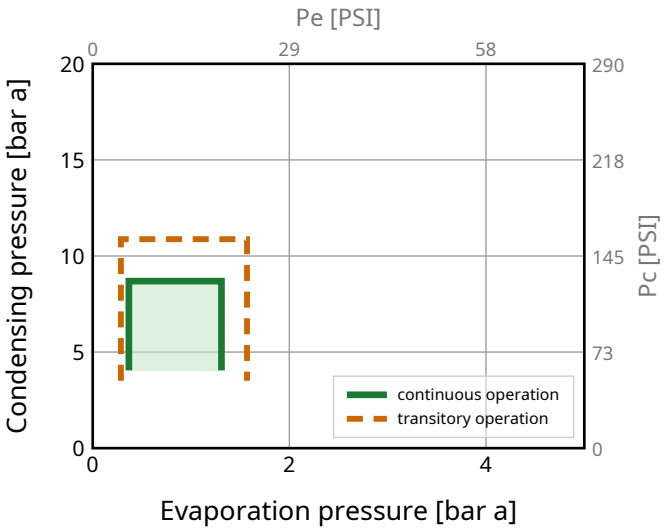
Components
. terminal board (PTC, 4.8mm) 15163800
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

Alternative components
. terminal board (PTC, 6.3mm) 15162300

Operation Pressure Range





Model
HTK70AA Configuration 3

Sales code:
16128400

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	**117**	399	101	**1.61**	5.49	73	0.42	1.26	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**87**	296	75	**1.24**	4.23	70	0.40	1.13	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**57**	194	49	**1.13**	3.84	50	0.34	0.69	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**94**	321	81	**1.35**	4.62	70	0.41	1.37	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**122**	416	105	**1.82**	6.22	67	0.40	1.31	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**54**	184	46	**1.07**	3.65	50	0.34	0.64	**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	**54**	184	46	**1.07**	3.65	50	0.34	0.64
-30	-22	**73**	248	63	**1.25**	4.25	58	0.37	0.87
-25	-13	**99**	336	85	**1.49**	5.10	66	0.40	1.17
-20	-4	**130**	443	112	**1.78**	6.06	73	0.43	1.55
-15	5	**165**	564	142	**2.08**	7.08	80	0.46	1.98
-10	14	**204**	695	175	**2.37**	8.10	86	0.49	2.44
-5	23	**243**	830	209	**2.66**	9.09	91	0.52	2.92

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

-35	-31	**44**	149	37	**0.89**	3.02	49	0.33	0.57
-30	-22	**62**	212	53	**1.04**	3.53	60	0.37	0.81
-25	-13	**87**	296	75	**1.24**	4.23	70	0.40	1.13
-20	-4	**116**	396	100	**1.47**	5.00	79	0.44	1.52
-15	5	**149**	508	128	**1.70**	5.78	88	0.48	1.95
-10	14	**184**	627	158	**1.92**	6.55	96	0.53	2.41
-5	23	**219**	748	188	**2.13**	7.28	103	0.57	2.88

Model

HTK70AA Configuration 4

Sales code:

16128400

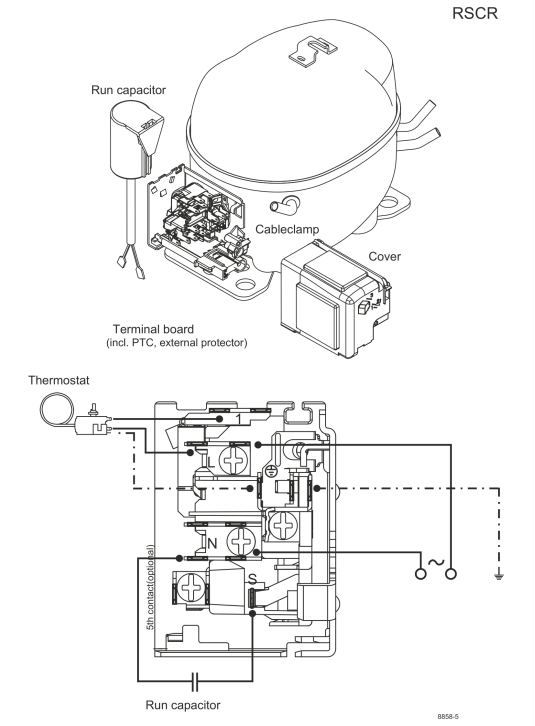
Configuration

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	**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



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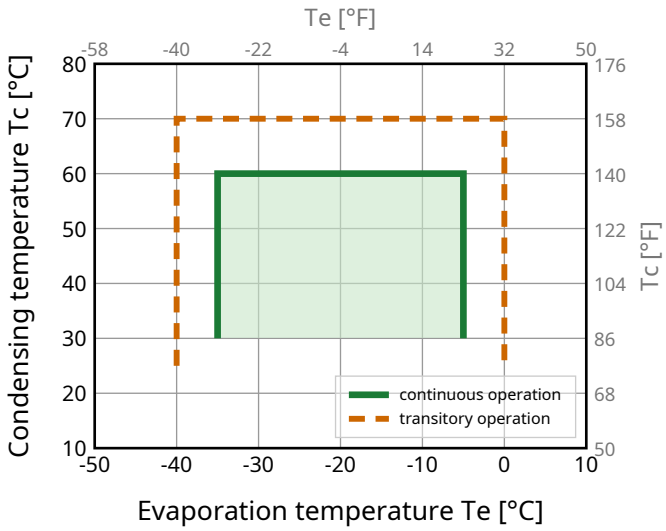
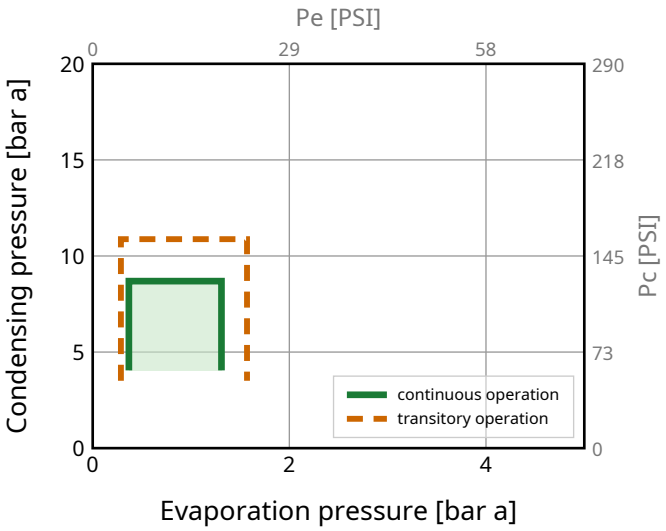
Components
. terminal board (PTC, 6.3mm) 15162300
. run capacitor (4µF, 6.3mm) 15186801
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. screw uni en iso 4757 10641201

Operation Pressure Range





Model

HTK70AA Configuration 4

Sales code:

16128400

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**	398	100	**1.66**	5.67	70	0.31	1.25	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**87**	295	74	**1.28**	4.38	68	0.30	1.13	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**57**	194	49	**1.18**	4.03	48	0.26	0.69	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**94**	321	81	**1.40**	4.78	67	0.31	1.37	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**122**	416	105	**1.91**	6.50	64	0.30	1.31	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**54**	184	46	**1.12**	3.83	48	0.25	0.64	**opt LBP**

Performance Tables

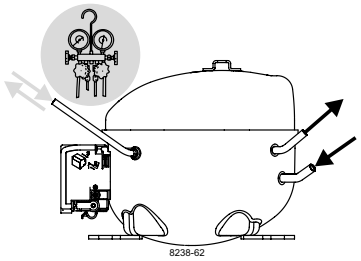
R600a, 220 V/50 Hz, RSCR, static

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	**54**	184	46	**1.12**	3.83	48	0.25	0.64
-30	-22	**73**	248	63	**1.30**	4.44	56	0.27	0.86
-25	-13	**98**	336	85	**1.56**	5.31	63	0.30	1.17
-20	-4	**130**	443	112	**1.84**	6.29	70	0.32	1.55
-15	5	**165**	564	142	**2.14**	7.32	77	0.35	1.97
-10	14	**203**	694	175	**2.44**	8.33	83	0.37	2.44
-5	23	**243**	829	209	**2.73**	9.30	89	0.40	2.92

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

-35	-31	**44**	149	37	**0.91**	3.12	48	0.25	0.57
-30	-22	**62**	212	53	**1.07**	3.66	58	0.28	0.81
-25	-13	**87**	295	74	**1.28**	4.38	68	0.30	1.13
-20	-4	**116**	396	100	**1.51**	5.16	77	0.34	1.51
-15	5	**149**	508	128	**1.74**	5.95	85	0.37	1.95
-10	14	**184**	626	158	**1.97**	6.71	93	0.40	2.41
-5	23	**219**	747	188	**2.17**	7.42	101	0.43	2.88



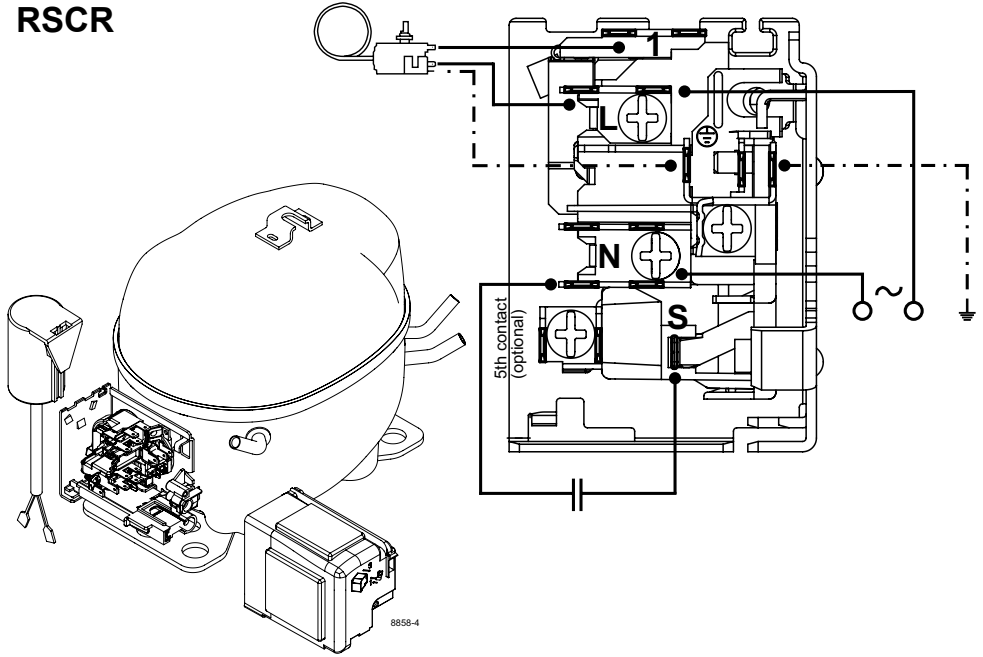
K-Series Compressors
GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

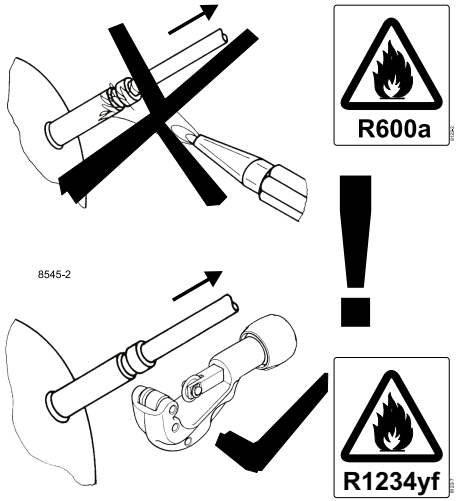
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

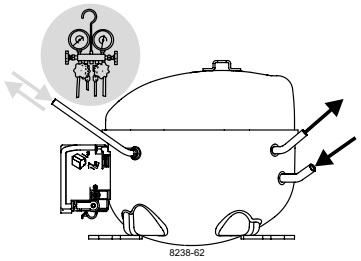
RSCR



Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)





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

SECOP

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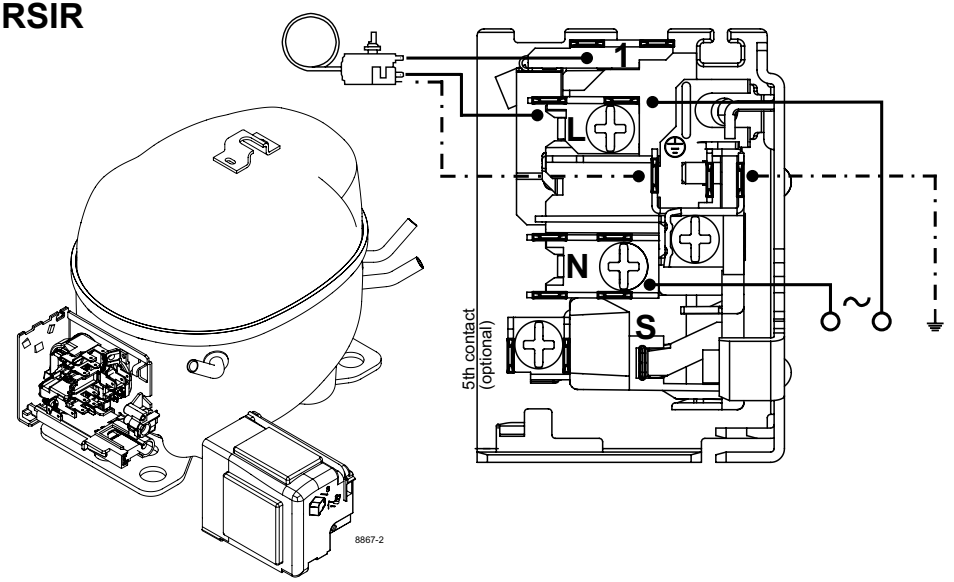
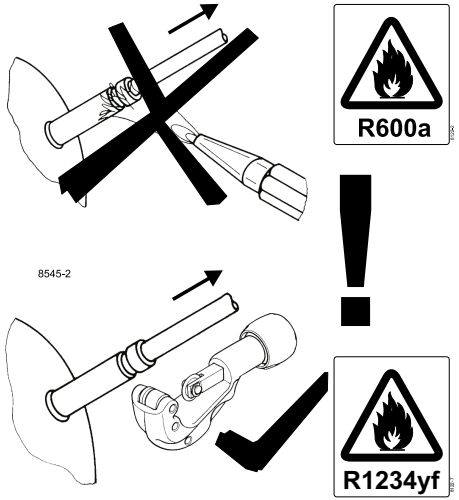
RSIR



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**