

Model
HXK70AT

Sales code:
16425000

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	8.20 kg / 18.08lbs
Displacement	6.64 cm³ / 0.41cu.in
Compressors on pallet	100



General - Configurations With HXK70AT

-	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	RSIR	RSCR	RSIR	RSCR
Power supply (nominal)	200-240 V/50 Hz	200-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1	1	1
Voltage range	170-264 V	170-264 V	170-264 V	170-264 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.

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Compressor Design

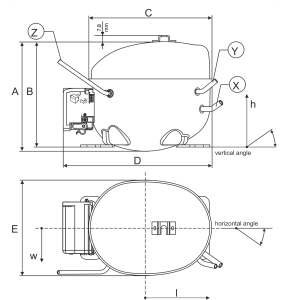
Oil type	Mineral	Winding resistance main	24.3 Ohm
Oil viscosity	5cSt	Winding resistance aux	13.8 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,620 m3 / 54.78fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

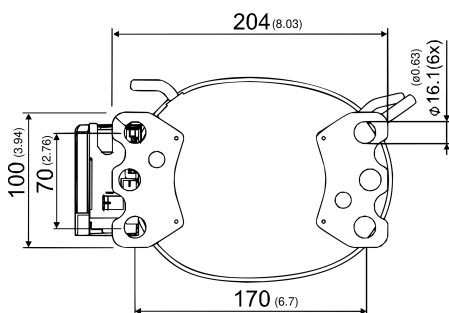
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



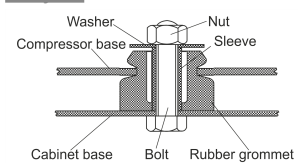
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

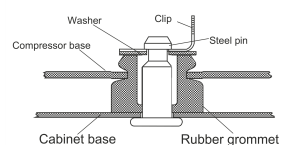


Dimensions in mm [in]

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
HXK70AT

Configuration 1

Sales code:
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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

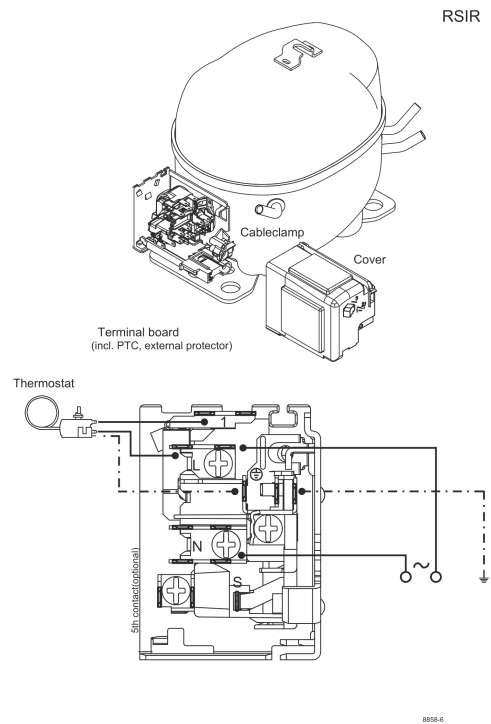
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram

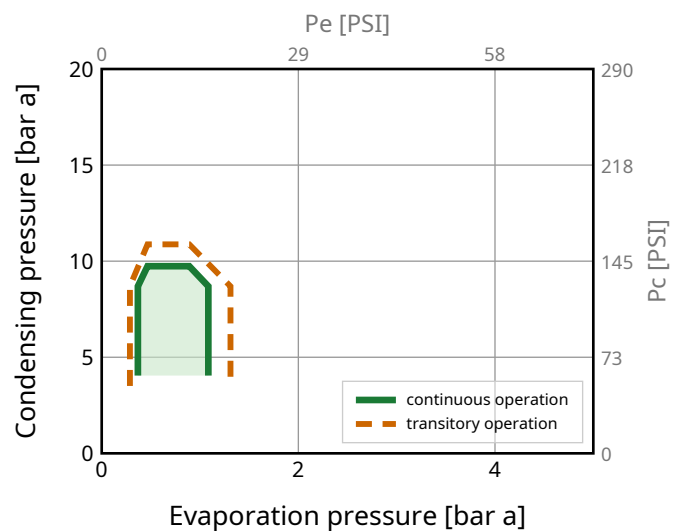
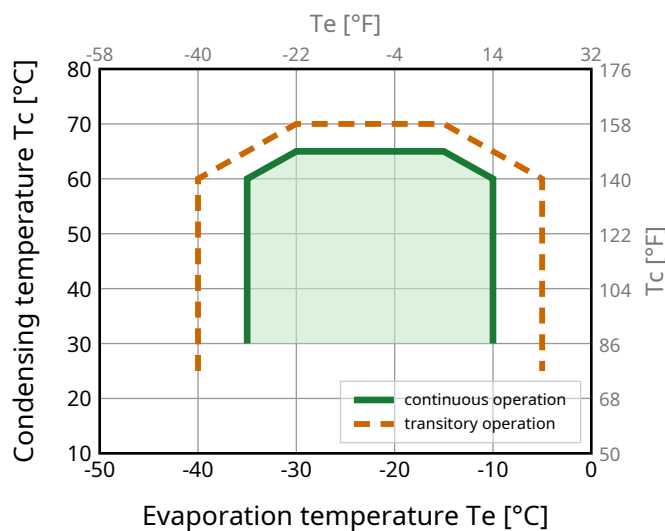


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Components

- . terminal board (PTC, 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
HXK70AT

Configuration 1

Sales code:
16425000

Standard Conditions

R600a, 200 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	118	404	102	1.64	5.59	72	0.36	1.27	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	88	302	76	1.28	4.36	69	0.34	1.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	66	227	57	1.29	4.39	52	0.26	0.81	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	97	331	83	1.37	4.68	71	0.35	1.42	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	126	430	108	1.87	6.39	67	0.34	1.35	AHAM LBP
-35 -31	45 113	32 89.6	45 113	64	220	55	1.23	4.21	52	0.26	0.77	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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	64	220	55	1.23	4.21	52	0.26	0.77
-30	-22	81	276	70	1.36	4.65	59	0.30	0.96
-25	-13	103	352	89	1.55	5.29	67	0.33	1.23
-20	-4	132	450	113	1.77	6.05	74	0.37	1.57
-15	5	166	568	143	2.03	6.93	82	0.40	1.99
-10	14	208	708	179	2.31	7.89	90	0.43	2.48

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

-35	-31	48	164	41	0.95	3.23	51	0.26	0.62
-30	-22	66	226	57	1.11	3.77	60	0.30	0.86
-25	-13	88	302	76	1.28	4.36	69	0.34	1.15
-20	-4	115	393	99	1.46	5.00	79	0.38	1.50
-15	5	146	498	126	1.66	5.66	88	0.43	1.91
-10	14	181	619	156	1.86	6.36	97	0.47	2.38

Model
HXK70AT

Configuration 2

Sales code:
16425000

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	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

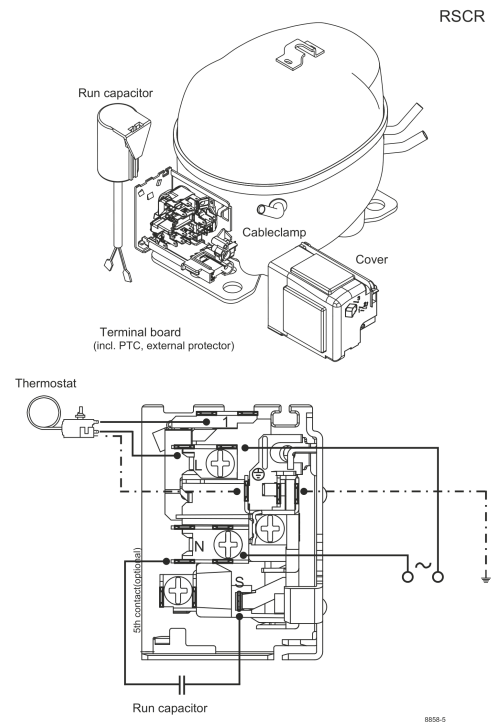
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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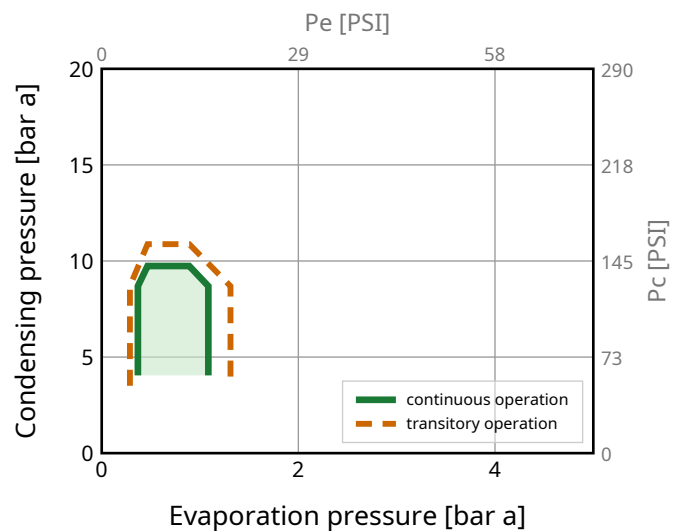
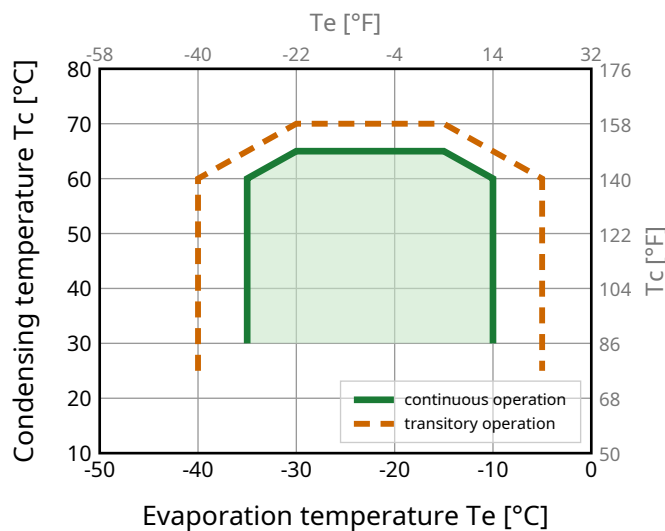
Components

- . terminal board (PTC, 6.3mm) 15279300
- . run capacitor (4 μ F, 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
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Configuration 2

Sales code:
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Standard Conditions

R600a, 200 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	118	404	102	1.72	5.85	69	0.34	1.27	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	88	302	76	1.34	4.58	66	0.33	1.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	66	227	57	1.35	4.61	49	0.25	0.81	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	97	331	83	1.44	4.91	67	0.33	1.42	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	126	430	108	1.96	6.70	64	0.32	1.35	AHAM LBP
-35 -31	45 113	32 89.6	45 113	64	220	55	1.29	4.42	50	0.25	0.77	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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	64	220	55	1.29	4.42	50	0.25	0.77
-30	-22	81	276	70	1.43	4.88	56	0.28	0.96
-25	-13	103	352	89	1.62	5.54	64	0.32	1.23
-20	-4	132	450	113	1.86	6.35	71	0.35	1.57
-15	5	166	568	143	2.13	7.26	78	0.38	1.99
-10	14	208	708	179	2.42	8.27	86	0.41	2.48

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

-35	-31	48	164	41	0.99	3.39	48	0.24	0.62
-30	-22	66	226	57	1.16	3.96	57	0.29	0.86
-25	-13	88	302	76	1.34	4.58	66	0.33	1.15
-20	-4	115	393	99	1.53	5.24	75	0.37	1.50
-15	5	146	498	126	1.74	5.94	84	0.41	1.91
-10	14	181	619	156	1.96	6.67	93	0.45	2.38

Model
HXK70AT

Configuration 3

Sales code:
16425000

Configuration

Motor configuration	RSIR
Power supply (nominal)	220-240 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

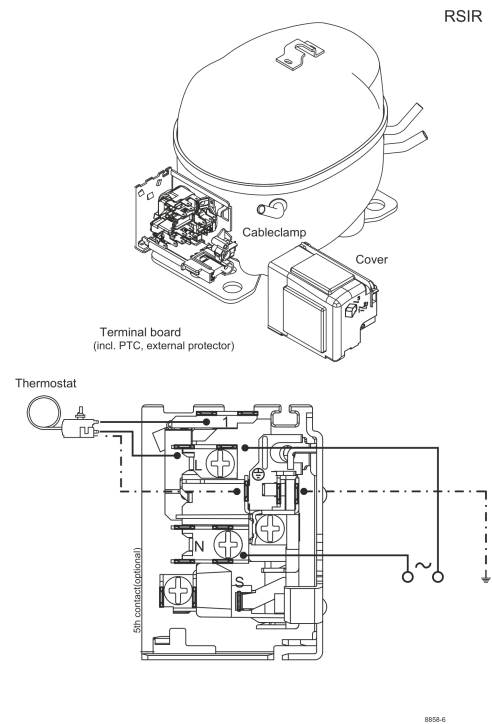
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram

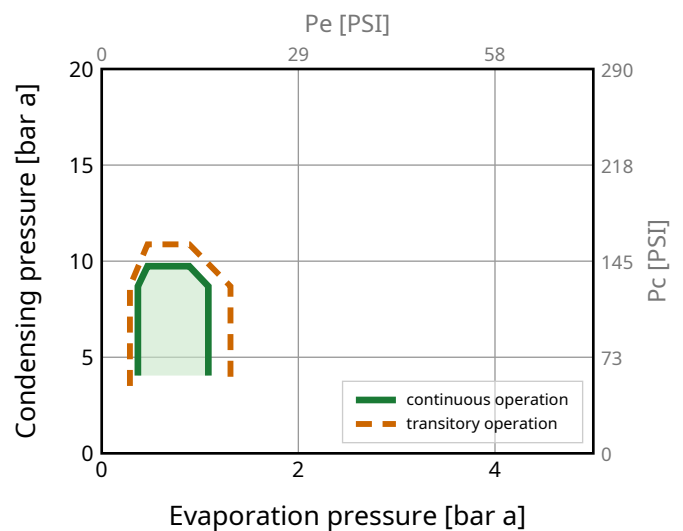
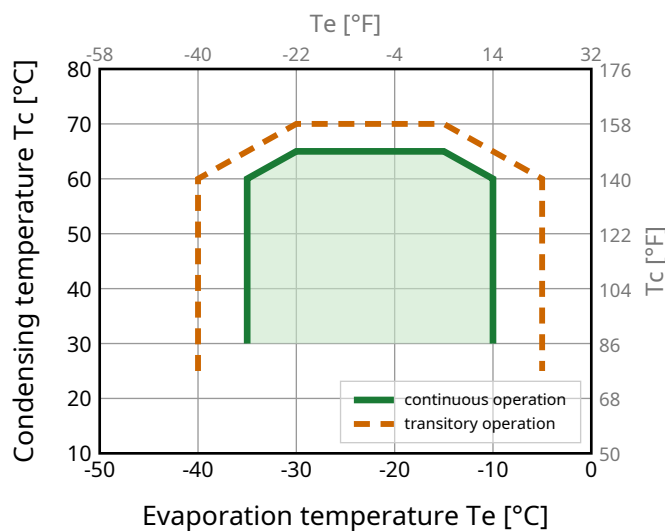


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Components

- . terminal board (PTC, 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
HXK70AT

Configuration 3

Sales code:
16425000

Standard Conditions

R600a, 230 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	118	401	101	1.57	5.36	75	0.37	1.26	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	88	300	76	1.23	4.19	72	0.36	1.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	66	225	57	1.24	4.21	53	0.27	0.80	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	96	329	83	1.32	4.49	73	0.36	1.41	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	125	427	108	1.80	6.13	70	0.35	1.34	AHAM LBP
-35 -31	45 113	32 89.6	45 113	64	218	55	1.19	4.04	54	0.27	0.76	opt LBP

Performance Tables

R600a, 230 V/50 Hz, RSIR, static

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

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	64	218	55	1.19	4.04	54	0.27	0.76
-30	-22	80	274	69	1.31	4.47	61	0.31	0.95
-25	-13	103	350	88	1.49	5.07	69	0.35	1.22
-20	-4	131	447	113	1.70	5.81	77	0.38	1.56
-15	5	165	564	142	1.95	6.65	85	0.42	1.98
-10	14	206	703	177	2.22	7.57	93	0.45	2.47

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

-35	-31	48	163	41	0.91	3.10	52	0.27	0.62
-30	-22	66	225	57	1.06	3.62	62	0.31	0.86
-25	-13	88	300	76	1.23	4.19	72	0.36	1.15
-20	-4	114	390	98	1.41	4.79	81	0.40	1.49
-15	5	145	495	125	1.59	5.43	91	0.44	1.90
-10	14	180	615	155	1.79	6.11	101	0.49	2.36

Model
HXK70AT

Configuration 4

Sales code:
16425000

Configuration

Motor configuration	RSCR
Power supply (nominal)	220-240 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	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

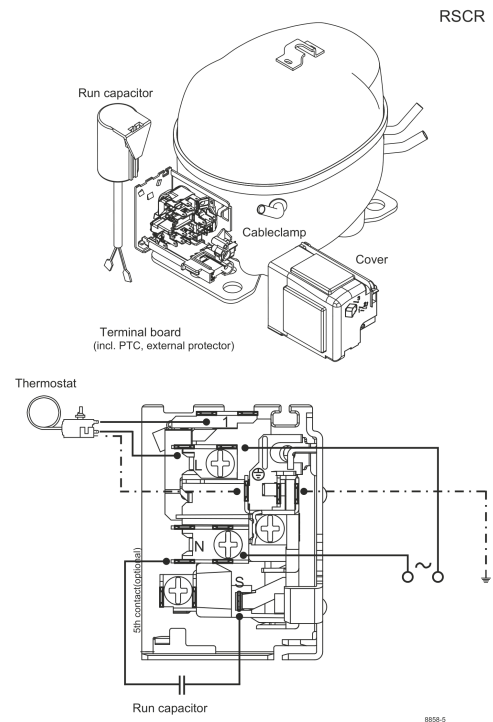
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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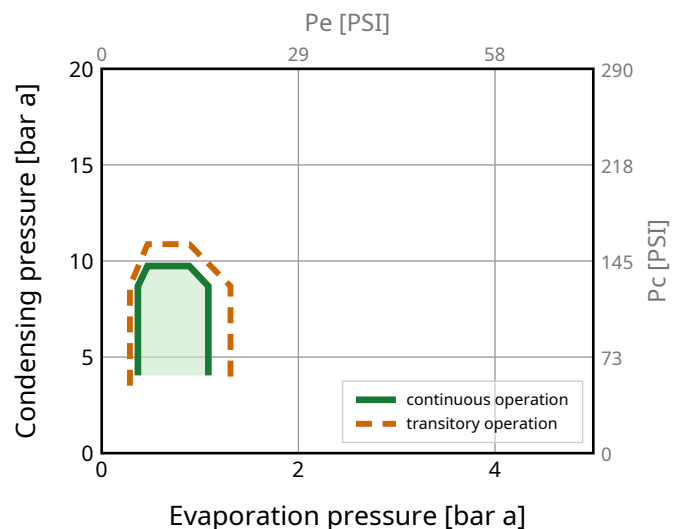
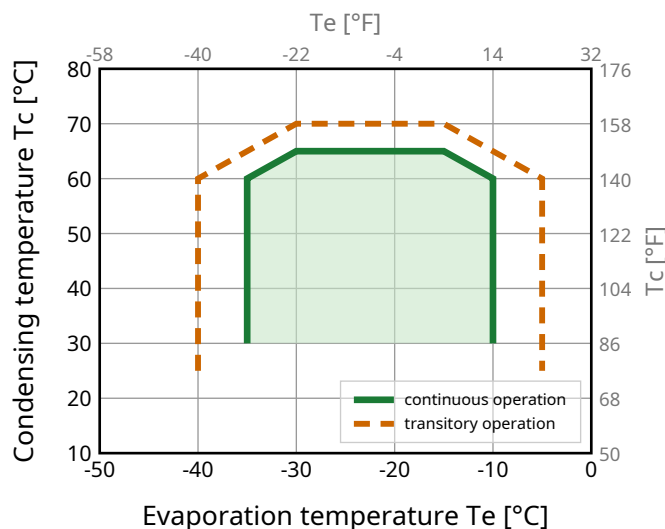
Components

- . terminal board (PTC, 6.3mm) 15279300
- . run capacitor (4 μ F, 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
HXK70AT

Configuration 4

Sales code:
16425000

Standard Conditions

R600a, 230 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	118	401	101	1.65	5.62	71	0.35	1.26	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	88	300	76	1.29	4.39	68	0.34	1.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	66	225	57	1.29	4.42	51	0.26	0.80	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	96	329	83	1.38	4.71	70	0.35	1.41	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	125	427	108	1.89	6.43	66	0.34	1.34	AHAM LBP
-35 -31	45 113	32 89.6	45 113	64	218	55	1.24	4.24	52	0.26	0.76	opt LBP

Performance Tables

R600a, 230 V/50 Hz, RSCR, static

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

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	64	218	55	1.24	4.24	52	0.26	0.76
-30	-22	80	274	69	1.37	4.68	58	0.30	0.95
-25	-13	103	350	88	1.56	5.32	66	0.33	1.22
-20	-4	131	447	113	1.79	6.09	73	0.36	1.56
-15	5	165	564	142	2.04	6.97	81	0.40	1.98
-10	14	206	703	177	2.33	7.94	89	0.43	2.47

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

-35	-31	48	163	41	0.95	3.26	50	0.25	0.62
-30	-22	66	225	57	1.11	3.80	59	0.30	0.86
-25	-13	88	300	76	1.29	4.39	68	0.34	1.15
-20	-4	114	390	98	1.47	5.03	78	0.38	1.49
-15	5	145	495	125	1.67	5.70	87	0.42	1.90
-10	14	180	615	155	1.88	6.40	96	0.46	2.36