

Model
HXK70AA

Sales code:
16363600

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 HXK70AA

-	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	eRSCR	eRSCR	RSCR	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
- Various options of connectors are possible - please contact SECOP-Sales.

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Compressor Design

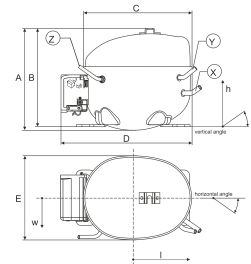
Oil type	Mineral	Winding resistance main	37.1 Ohm
Oil viscosity	5cSt	Winding resistance aux	28.9 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,660 cm³ / 56.13fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

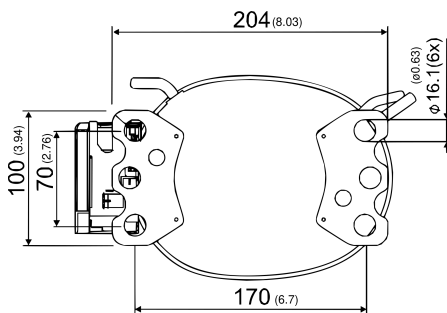
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



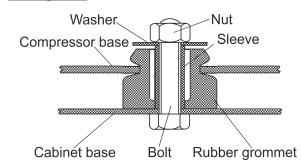
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.16–6.24 / 0.24–0.25in	øi 5.1–5.2 / 0.20–0.20in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	54°	35°	45°
Vertical angle ±2°	35°	40°	35°
Position l/h/w [mm]	120/92/56.7 / 4.72/3.62/2.23in	112/105.5/81 / 4.41/4.15/3.19in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

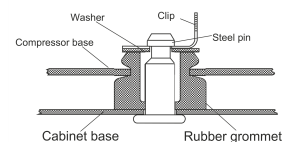


Dimensions in mm [in]

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
HXK70AA

Configuration 1

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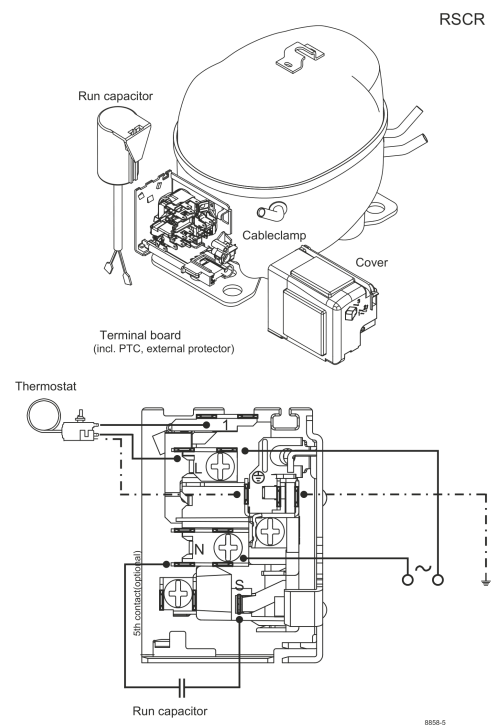
Configuration

Motor configuration	eRSCR
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	e-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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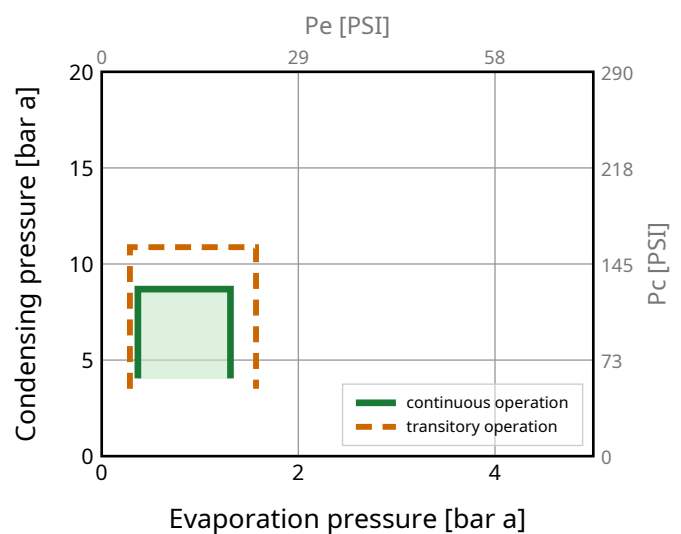
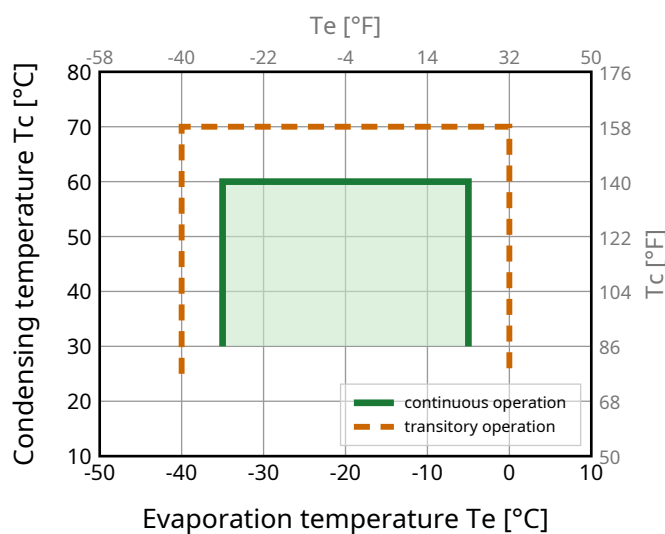
Components

- . terminal board (e-PTC, 4.8mm) 15624200
- . run capacitor (3 μ F, 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
HXK70AA

Configuration 1

Sales code:
16363600

Standard Conditions

R600a, 220 V/50 Hz, eRSCR, 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	403	102	1.85	6.33	64	0.29	1.27	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	88	301	76	1.46	4.97	60	0.28	1.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	66	224	56	1.38	4.71	48	0.22	0.80	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	97	330	83	1.57	5.36	62	0.28	1.41	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	128	436	110	2.17	7.42	59	0.27	1.37	AHAM LBP
-35 -31	45 113	32 89.6	45 113	60	206	52	1.31	4.46	46	0.21	0.72	opt LBP

Performance Tables

R600a, 220 V/50 Hz, eRSCR, 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	60	206	52	1.31	4.46	46	0.21	0.72
-30	-22	79	271	68	1.54	5.27	51	0.23	0.94
-25	-13	103	352	89	1.79	6.10	58	0.26	1.23
-20	-4	132	452	114	2.03	6.93	65	0.30	1.58
-15	5	167	569	143	2.27	7.74	74	0.33	1.99
-10	14	206	704	177	2.51	8.55	82	0.37	2.47
-5	23	251	856	216	2.75	9.38	91	0.41	3.01

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

-35	-31	46	159	40	1.09	3.71	43	0.20	0.60
-30	-22	65	222	56	1.27	4.34	51	0.23	0.85
-25	-13	88	301	76	1.46	4.97	60	0.28	1.15
-20	-4	116	395	100	1.64	5.59	71	0.32	1.51
-15	5	148	506	128	1.82	6.21	82	0.37	1.94
-10	14	186	633	160	2.00	6.84	93	0.42	2.44
-5	23	228	776	196	2.19	7.49	104	0.47	2.99

Model
HXK70AA

Configuration 2

Sales code:
16363600

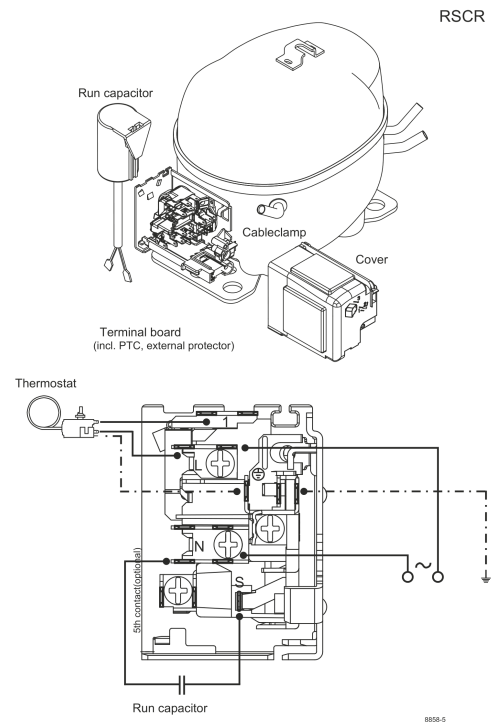
Configuration

Motor configuration	eRSCR
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	e-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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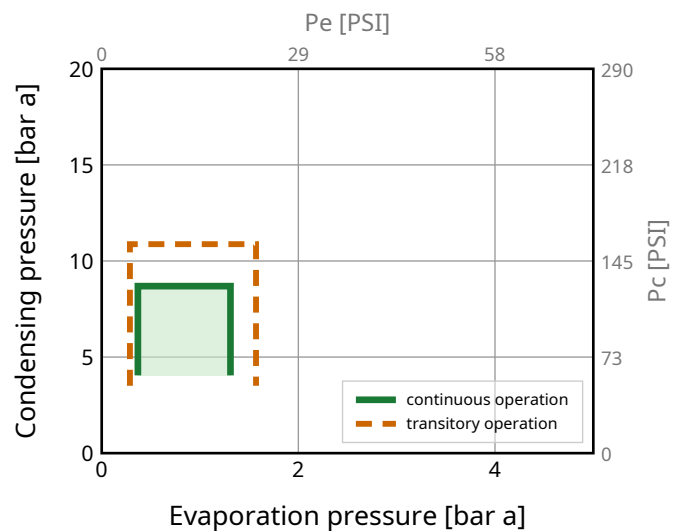
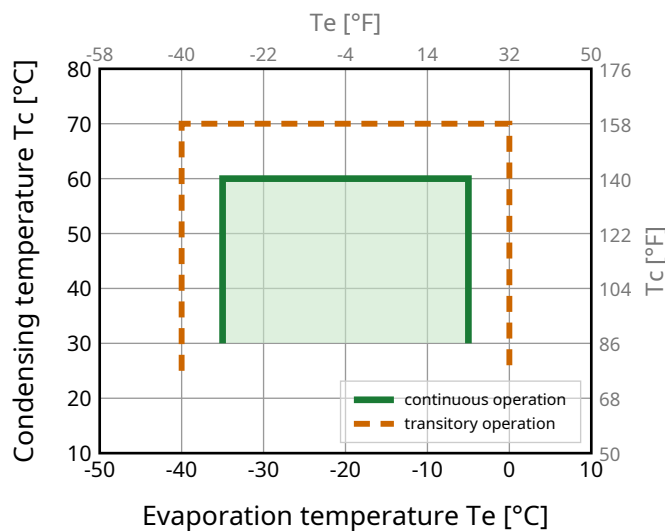
Components

- . terminal board (e-PTC, 4.8mm) 15624200
- . run capacitor (3 μ F, 4.8mm) 10693200
- 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
HXK70AA

Configuration 2

Sales code:
16363600

Standard Conditions

R600a, 220 V/50 Hz, eRSCR, 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	403	102	1.85	6.33	64	0.29	1.27	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	88	301	76	1.46	4.97	60	0.28	1.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	66	224	56	1.38	4.71	48	0.22	0.80	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	97	330	83	1.57	5.36	62	0.28	1.41	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	128	436	110	2.17	7.42	59	0.27	1.37	AHAM LBP
-35 -31	45 113	32 89.6	45 113	60	206	52	1.31	4.46	46	0.21	0.72	opt LBP

Performance Tables

R600a, 220 V/50 Hz, eRSCR, 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	60	206	52	1.31	4.46	46	0.21	0.72
-30	-22	79	271	68	1.54	5.27	51	0.23	0.94
-25	-13	103	352	89	1.79	6.10	58	0.26	1.23
-20	-4	132	452	114	2.03	6.93	65	0.30	1.58
-15	5	167	569	143	2.27	7.74	74	0.33	1.99
-10	14	206	704	177	2.51	8.55	82	0.37	2.47
-5	23	251	856	216	2.75	9.38	91	0.41	3.01

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

-35	-31	46	159	40	1.09	3.71	43	0.20	0.60
-30	-22	65	222	56	1.27	4.34	51	0.23	0.85
-25	-13	88	301	76	1.46	4.97	60	0.28	1.15
-20	-4	116	395	100	1.64	5.59	71	0.32	1.51
-15	5	148	506	128	1.82	6.21	82	0.37	1.94
-10	14	186	633	160	2.00	6.84	93	0.42	2.44
-5	23	228	776	196	2.19	7.49	104	0.47	2.99

Model
HXK70AA

Configuration 3

Sales code:
16363600

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

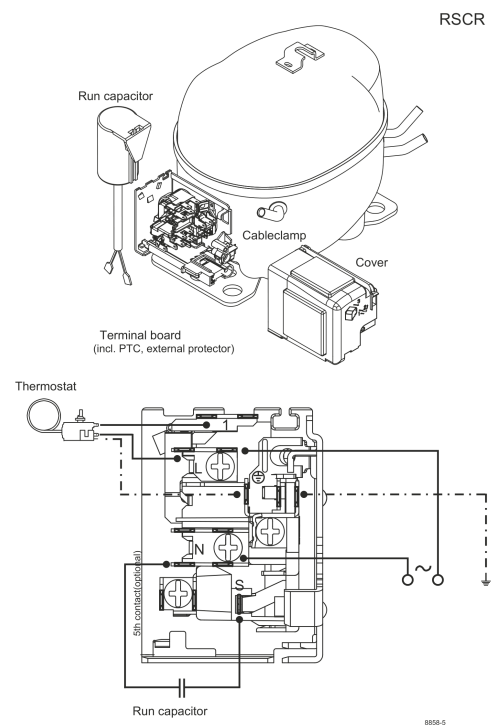
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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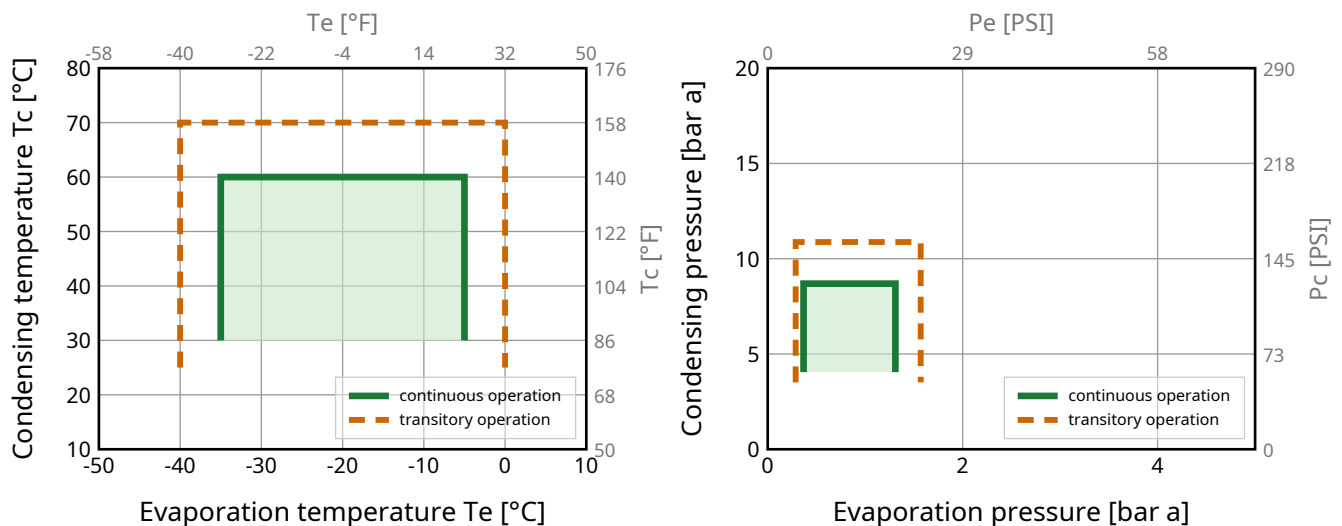
Components

- . terminal board (PTC, 4.8mm) 15163700
- . run capacitor (3 μ F, 4.8mm) 10693200
- b** cover terminal board 10636401
- . cable clamp 16058100
- . screw - uni6954 10636000
- . screw - uni6954 10636200

Alternative components

- . run capacitor (3 μ F, 4.8mm) 10692902
- . screw uni en iso 4757 10641201

Operation Pressure Range



Model
HXK70AA

Configuration 3

Sales code:
16363600

Standard Conditions

R600a, 220 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	403	102	1.85	6.33	64	0.29	1.27	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	88	301	76	1.46	4.97	60	0.28	1.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	66	224	56	1.38	4.71	48	0.22	0.80	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	97	330	83	1.57	5.36	62	0.28	1.41	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	128	436	110	2.17	7.42	59	0.27	1.37	AHAM LBP
-35 -31	45 113	32 89.6	45 113	60	206	52	1.31	4.46	46	0.21	0.72	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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	60	206	52	1.31	4.46	46	0.21	0.72
-30	-22	79	271	68	1.54	5.27	51	0.23	0.94
-25	-13	103	352	89	1.79	6.10	58	0.26	1.23
-20	-4	132	452	114	2.03	6.93	65	0.30	1.58
-15	5	167	569	143	2.27	7.74	74	0.33	1.99
-10	14	206	704	177	2.51	8.55	82	0.37	2.47
-5	23	251	856	216	2.75	9.38	91	0.41	3.01

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

-35	-31	46	159	40	1.09	3.71	43	0.20	0.60
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-25	-13	88	301	76	1.46	4.97	60	0.28	1.15
-20	-4	116	395	100	1.64	5.59	71	0.32	1.51
-15	5	148	506	128	1.82	6.21	82	0.37	1.94
-10	14	186	633	160	2.00	6.84	93	0.42	2.44
-5	23	228	776	196	2.19	7.49	104	0.47	2.99

Model
HXK70AA

Configuration 4

Sales code:
16363600

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

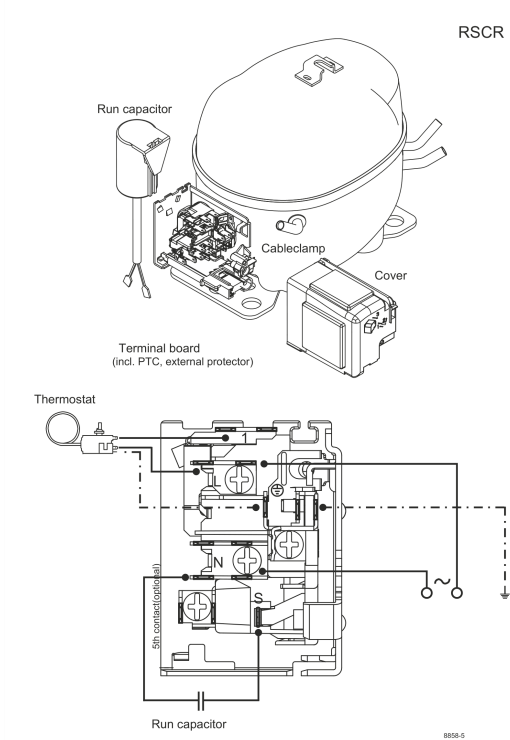
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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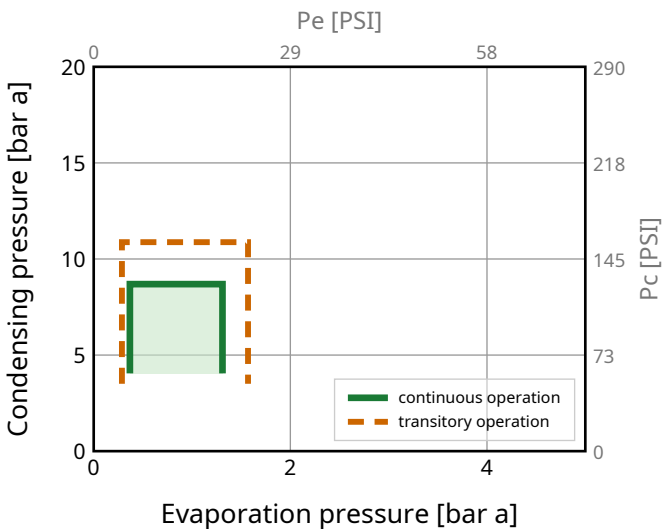
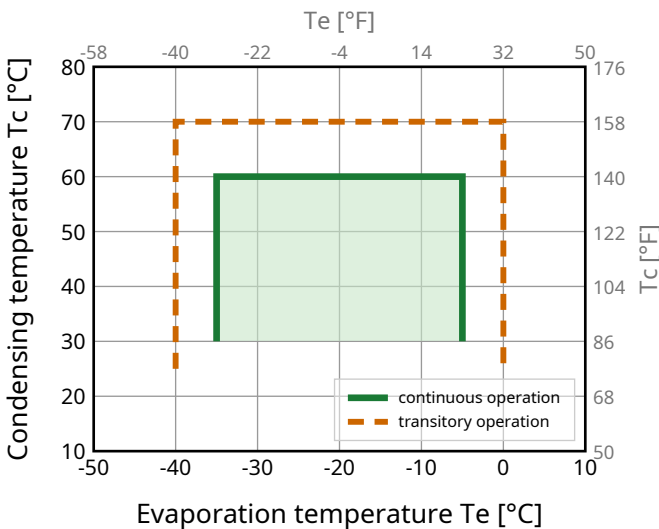
Components

- . terminal board (PTC, 6.3mm) 15162200
- . run capacitor (3 μ F, 6.3mm) 15312801
- 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
HXK70AA

Configuration 4

Sales code:
16363600

Standard Conditions

R600a, 220 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]	
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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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	60	206	52	1.31	4.46	46	0.21	0.72
-30	-22	79	271	68	1.54	5.27	51	0.23	0.94
-25	-13	103	352	89	1.79	6.10	58	0.26	1.23
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-5	23	251	856	216	2.75	9.38	91	0.41	3.01

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

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-20	-4	116	395	100	1.64	5.59	71	0.32	1.51
-15	5	148	506	128	1.82	6.21	82	0.37	1.94
-10	14	186	633	160	2.00	6.84	93	0.42	2.44
-5	23	228	776	196	2.19	7.49	104	0.47	2.99