

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.

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Compressor Design

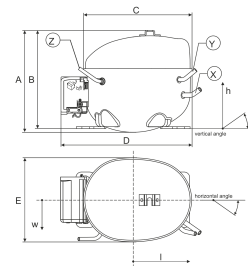
Oil type	Mineral	Winding resistance main	34 Ohm
Oil viscosity	5cSt	Winding resistance aux	15.5 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,500 cm ³ / 50.72fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

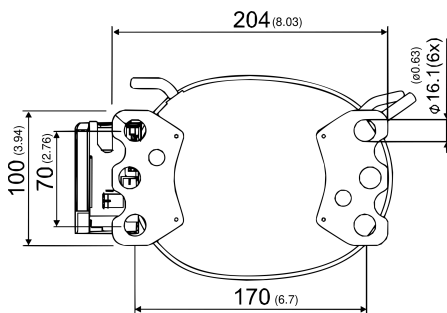
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



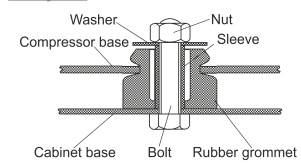
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.16–6.24 / 0.24–0.25in	øi 5.1–5.2 / 0.20–0.20in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	54°	35°	45°
Vertical angle ±2°	35°	40°	35°
Position l/h/w [mm]	120/92/56.7 / 4.72/3.62/2.23in	112/105.5/81 / 4.41/4.15/3.19in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

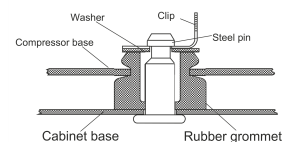


Dimensions in mm [in]

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:
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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

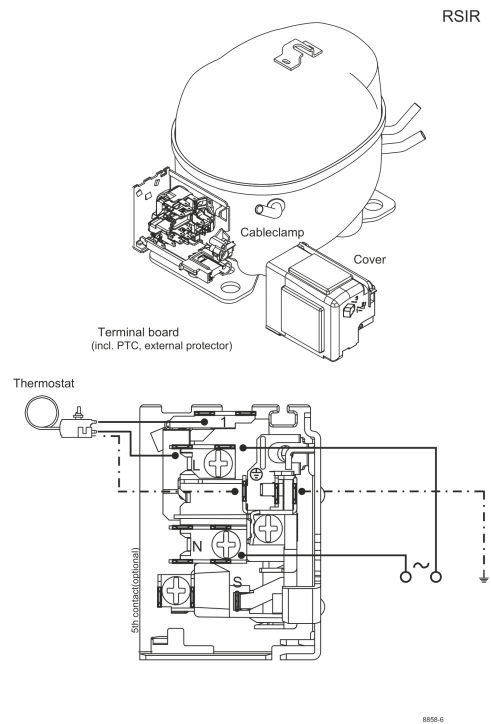
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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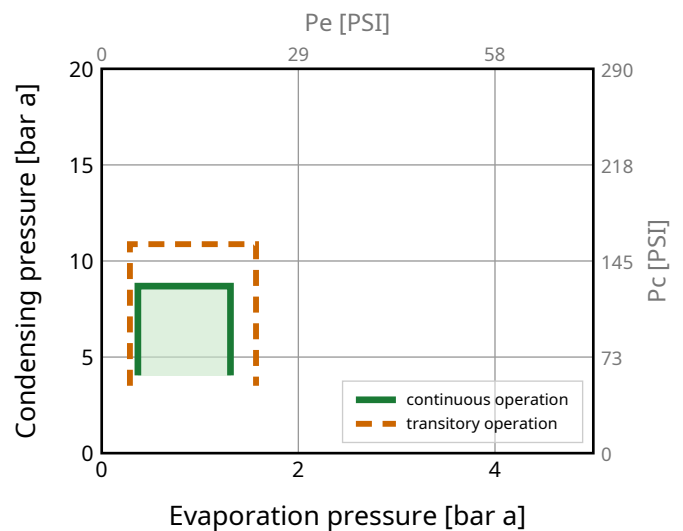
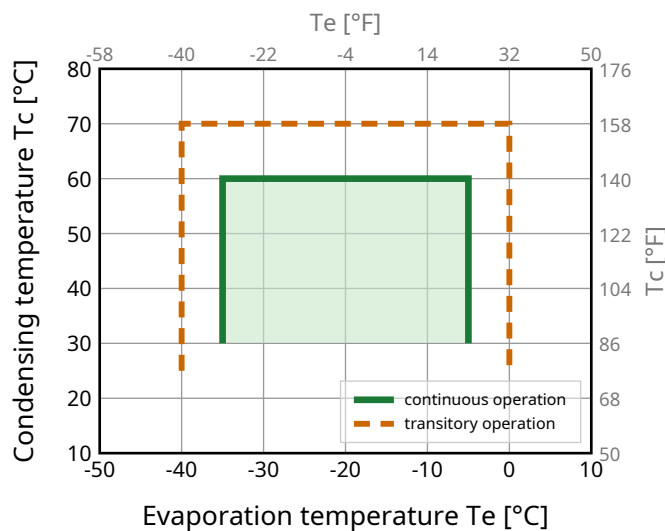
Components

- . 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	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	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	m
[°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

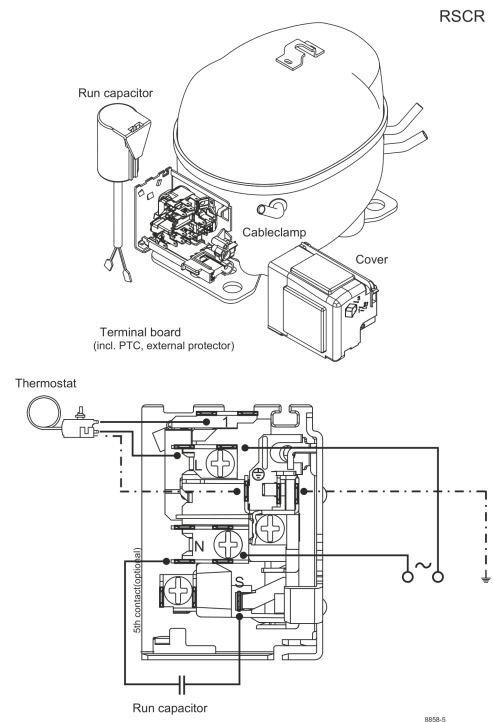
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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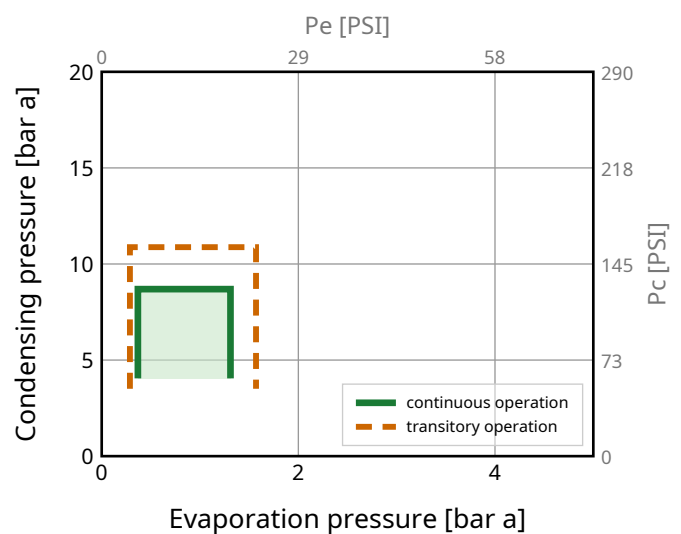
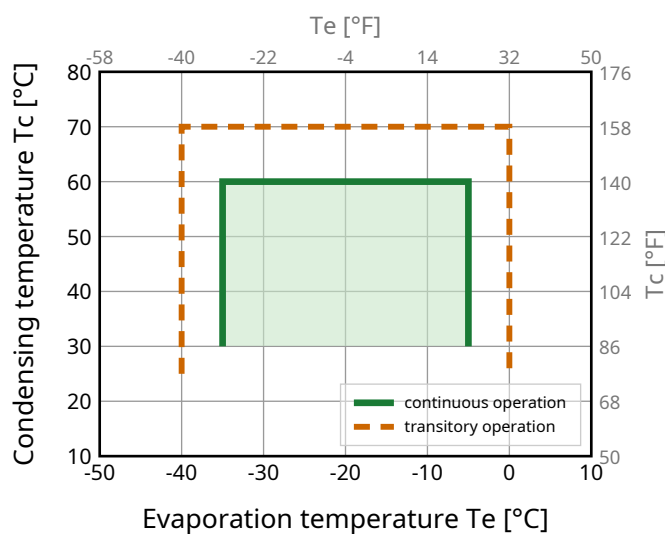
Components

- . terminal board (PTC, 4.8mm) 15163800
- . run capacitor (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
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	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	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	m
[°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

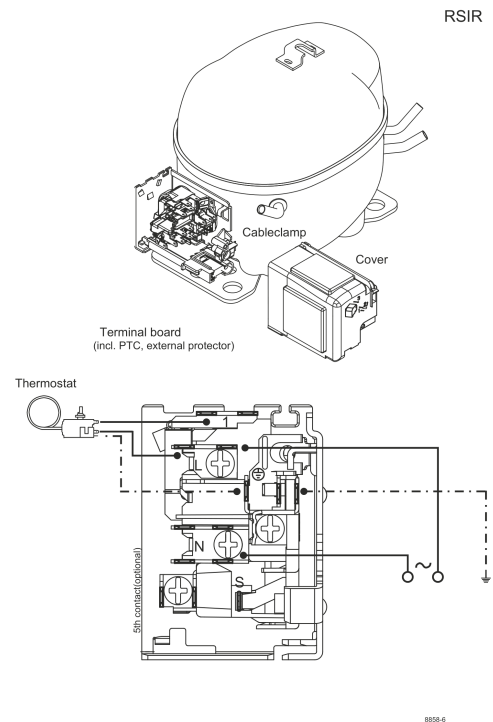
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Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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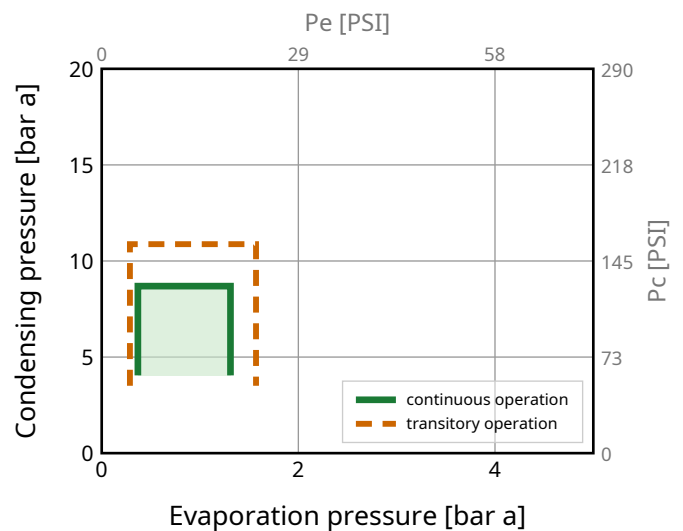
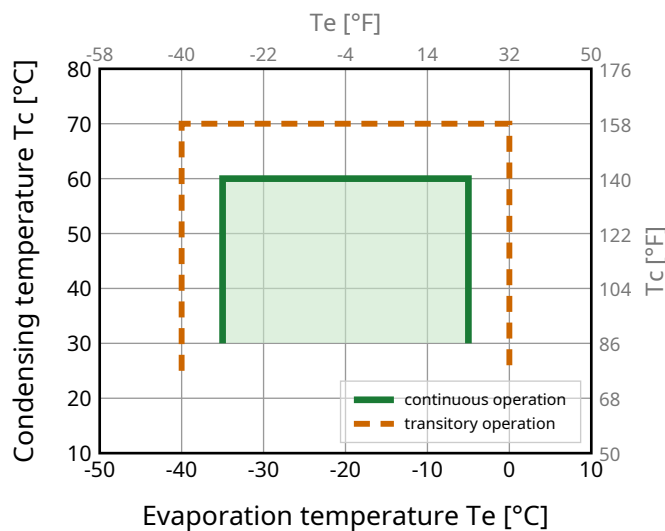
Components

- . 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	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	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	m
[°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

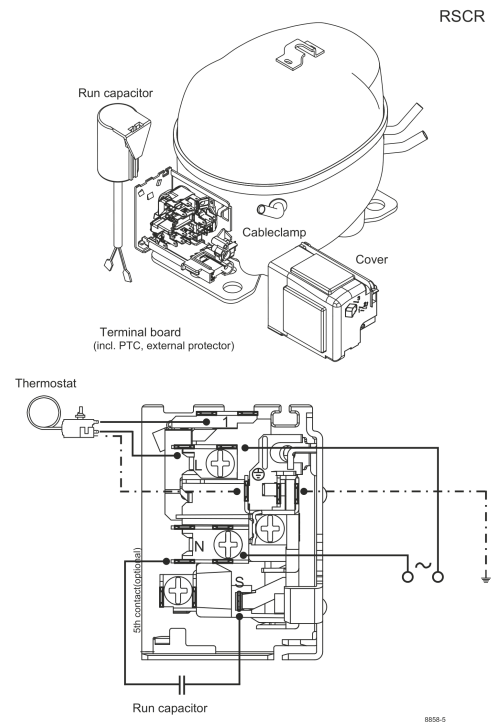
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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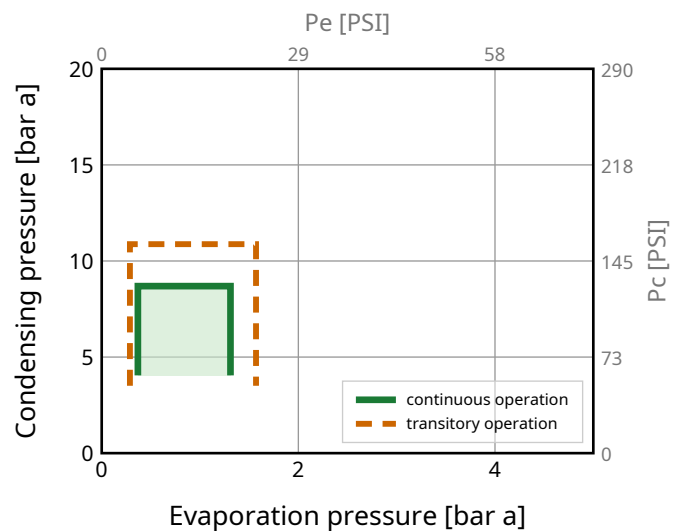
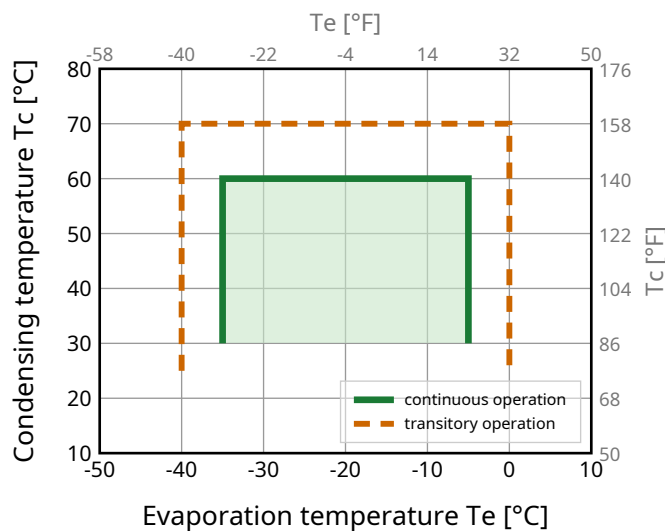
Components

- . terminal board (PTC, 6.3mm) 15162300
- . run capacitor (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
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	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	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	m
[°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