

Model

Designation	HTK70AA	220-240V/50Hz 1~	Sales code:	16128400
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cSt	Displacement	6,6cm ³ / 0,4cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1500cm ³ / 50,7fl.oz		
Weight	7,9kg / 17,4lbs		
Motor protection	external		
Winding resistance main	34Ω (at 25°C)		
Winding resistance aux	15,5Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HTK70AA

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	RSIR	RSCR	RSIR	RSCR
Power supply (nominal)	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1	1	1
Voltage range	187-264V	187-264V	187-264V	187-264V
Approvals	VDE	VDE	VDE	VDE
Starting torque	LST	LST	LST	LST
Note	Various options of connectors are possible - please contact SECOP-Sales.			

Applications with HTK70AA

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Refrigerant	R600a	R600a	R600a	R600a
Application	LBP	LBP	LBP	LBP
System cooling	static	static	static	static
Hot gas defrost	-/-	-/-	-/-	-/-
Long interval pull down	-/-	-/-	-/-	-/-

Electrical data - Configurations with HTK70AA

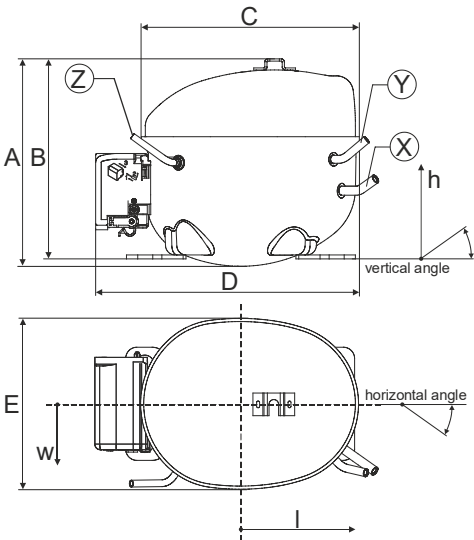
	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Starting device type	PTC	PTC	PTC	PTC
Run capacitor	-/-	3μF	-/-	4μF
Start capacitor	-/-	-/-	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))				
RLA (rated load amps / 1s/ U(N))	-/-A	-/-A	-/-A	-/-A
Cut in current (U(N))				

Model			
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Compressor dimensions

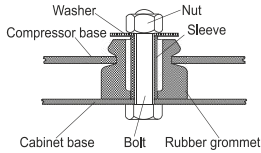
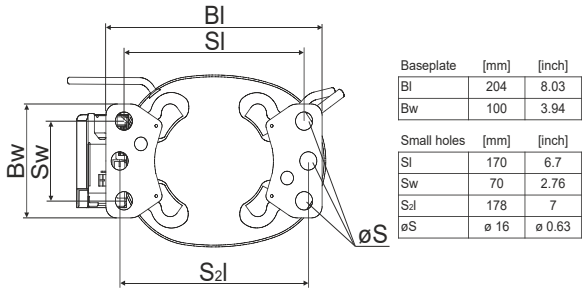
Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 6,16-6,24	øi 5,1-5,2	øi 6,11-6,29
	[in]	øi 0,24-0,25	øi 0,2-0,2	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	54°	35°	45°
Vertical angle	±2°	35°	40°	35°
Position l/h/w	[mm]	120/92/57	112/106/81	-86/94/72
	[in]	4,7/3,6/2,2	4,4/4,2/3,2	-3,4/3,7/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5

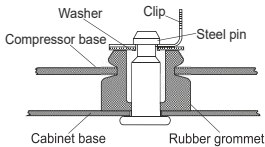


Compressor fixation

Bolt joint



Snap-on



Mounting accessories

- '4ZN' with rubber grommet
- '4ZN' with rubber grommet and sleeve for M6
- Bolt joint kit
- '4ZN' with Snap on kit

- order code
- 772N
- 768N
- 4ZN + 118-1917 (18)
- 776N

Application notes

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.

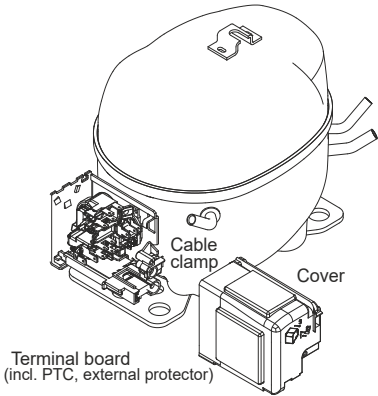
Model				
Designation	HTK70AA	220-240V/50Hz	Conf. 1	Sales code: 16128400

Configuration

Electrical accessories / wiring diagram

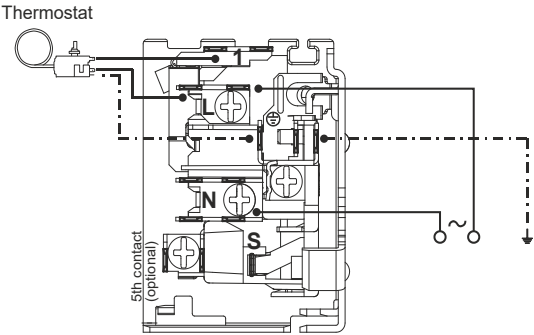
Motor configuration	RSIR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	187-264V
Starting torque	LST
Approvals	VDE

RSIR

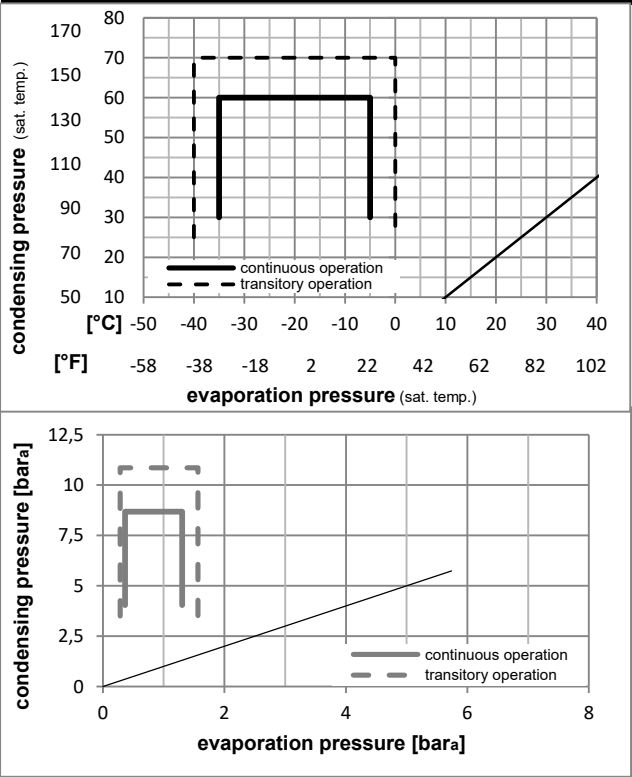


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



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
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Model

Designation **HTK70AA** **220-240V/50Hz** Conf. 1 Sales code: **16128400**

Optimization + standard conditions

R600a, 220V/50Hz, RSIR, static, VDE

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		Ref. mass flow					
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]	[°F]									[W]	[A]	[kg/h]		
-23	54	32	32	116,9	399	100,6	1,61	5,50	1,39	72,6	0,42	1,25	ASHRAE LBP	
-10	130	90	90											
-25	55	32	55	86,7	296	74,6	1,24	4,24	1,07	69,9	0,40	1,13	cecomaf LBP	
-13	131	90	131											
-35	40	20	40	56,9	194	48,9	1,13	3,85	0,97	50,5	0,34	0,69	EN12900 LBP	
-31	104	68	104											
-23	49	4,4	49	93,8	320	80,7	1,35	4,61	1,16	69,5	0,41	1,37	ARI540 LBP	
-10	120	40	120											
-23	41	32	32	121,8	416	104,8	1,82	6,23	1,57	66,8	0,40	1,31	AHAM LBP	
-10	105	90	90											
-35	45	32	45	54,0	185	46,5	1,07	3,66	0,92	50,4	0,34	0,64	opt	
-31	113	90	113											

Performance tables

R600a, 220V/50Hz, RSIR, static, VDE

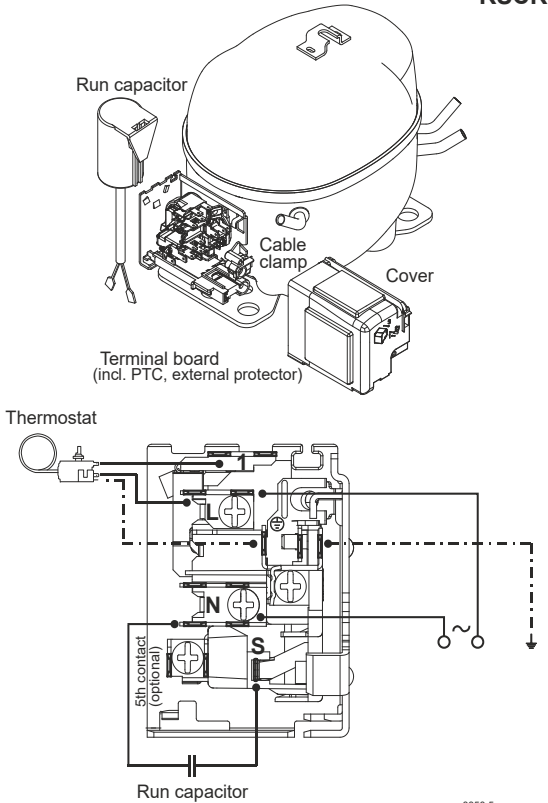
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	54,0	185	46,5	1,07	3,66	0,92	50,4	0,34	0,64
cond. pressure	-30	-22	72,8	249	62,7	1,25	4,26	1,07	58,4	0,37	0,87
pc= 45/113	-25	-13	98,6	337	84,8	1,49	5,10	1,29	66,0	0,40	1,17
return gas temp.	-23	-10	108,7	371	93,5	1,59	5,42	1,37	68,4	0,41	1,29
RGT= 32/90	-20	-4	129,9	444	111,8	1,78	6,07	1,53	73,1	0,43	1,55
liquid temp	-15	5	165,4	565	142,3	2,07	7,09	1,79	79,7	0,46	1,98
Tliq= 45/113	-5	23	243,2	831	209,3	2,66	9,10	2,29	91,3	0,52	2,92
[°C / °F]	-35	-31	43,6	149	37,6	0,89	3,03	0,76	49,2	0,33	0,57
cond. pressure	-30	-22	62,1	212	53,4	1,04	3,54	0,89	59,9	0,37	0,81
pc= 55/131	-25	-13	86,7	296	74,6	1,24	4,24	1,07	69,9	0,40	1,13
return gas temp	-23	-10	96,2	329	82,8	1,32	4,49	1,13	73,2	0,42	1,26
RGT= 32/90	-20	-4	116,1	397	99,9	1,47	5,00	1,26	79,2	0,44	1,52
liquid temp	-15	5	149,0	509	128,2	1,70	5,79	1,46	87,9	0,48	1,95
Tliq= 55/131	-5	23	219,1	748	188,6	2,13	7,29	1,84	102,7	0,57	2,88

Model					
Designation	HTK70AA	220-240V/50Hz	Conf. 2	Sales code:	16128400

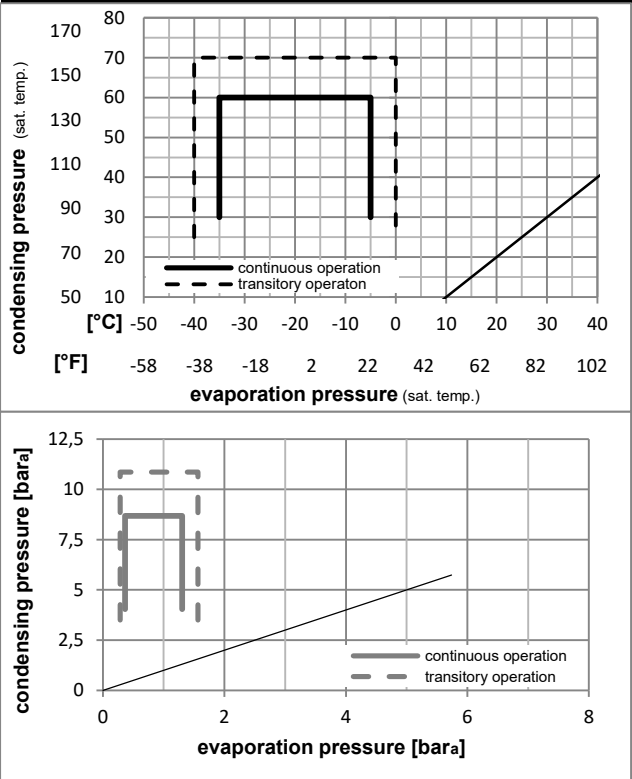
Configuration	Electrical accessories / wiring diagram				
Motor configuration	RSCR	RSCR			
Power supply (nominal)	220-240V/50Hz 1~				
Refrigerant	R600a				
Application	LBP				
Voltage range	187-264V				
Starting torque	LST				
Approvals	VDE				

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components	
terminal board (PTC, 4.8mm)	15163800
run capacitor (3 μF , 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

Model

Designation **HTK70AA** **220-240V/50Hz** Conf. 2 Sales code: **16128400**

Optimization + standard conditions

R600a, 220V/50Hz, RSCR, static, VDE

Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP			EER			Power consumption			Current consumption			Ref. mass flow		
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]
[°C]	-23	54	32	32	116,7	399	100,5	1,66	5,68	1,43	70,2	0,31	1,25	ASHRAE LBP																
[°F]	-10	130	90	90																										
[°C]	-25	55	32	55	86,6	296	74,5	1,28	4,38	1,10	67,5	0,30	1,13	cecomaf LBP																
[°F]	-13	131	90	131																										
[°C]	-35	40	20	40	56,8	194	48,9	1,18	4,03	1,02	48,1	0,26	0,69	EN12900 LBP																
[°F]	-31	104	68	104																										
[°C]	-23	49	4,4	49	93,7	320	80,6	1,40	4,77	1,20	67,0	0,31	1,37	ARI540 LBP																
[°F]	-10	120	40	120																										
[°C]	-23	41	32	32	121,7	416	104,7	1,90	6,50	1,64	63,9	0,30	1,31	AHAM LBP																
[°F]	-10	105	90	90																										
[°C]	-35	45	32	45	54,0	184	46,5	1,12	3,83	0,97	48,1	0,25	0,64	opt																
[°F]	-31	113	90	113																										

Performance tables

R600a, 220V/50Hz, RSCR, static, VDE

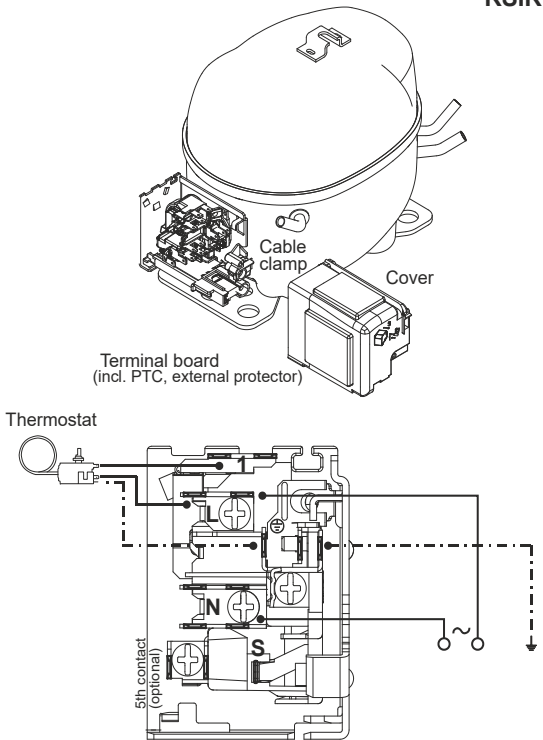
	pe		Cooling capacity			COP		EER		P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[kg/h]
[°C / °F]	-35	-31	54,0	184	46,5	1,12	3,83	0,97	48,1	0,25	0,64				
cond. pressure	-30	-22	72,7	248	62,6	1,30	4,45	1,12	55,8	0,27	0,86				
pc= 45/113	-25	-13	98,5	336	84,7	1,56	5,31	1,34	63,3	0,30	1,17				
return gas temp.	-23	-10	108,5	371	93,4	1,65	5,64	1,42	65,7	0,31	1,29				
RGT= 32/90	-20	-4	129,7	443	111,7	1,84	6,30	1,59	70,4	0,32	1,55				
liquid temp	-15	5	165,2	564	142,2	2,14	7,32	1,85	77,1	0,35	1,97				
Tliq= 45/113	-5	23	242,9	830	209,1	2,73	9,31	2,35	89,1	0,40	2,92				
[°C / °F]	-35	-31	43,6	149	37,5	0,91	3,12	0,79	47,7	0,25	0,57				
cond. pressure	-30	-22	62,0	212	53,4	1,07	3,66	0,92	57,8	0,28	0,81				
pc= 55/131	-25	-13	86,6	296	74,5	1,28	4,38	1,10	67,5	0,30	1,13				
return gas temp	-23	-10	96,1	328	82,7	1,36	4,64	1,17	70,7	0,31	1,25				
RGT= 32/90	-20	-4	116,0	396	99,8	1,51	5,17	1,30	76,7	0,33	1,52				
liquid temp	-15	5	148,8	508	128,0	1,74	5,96	1,50	85,3	0,37	1,95				
Tliq= 55/131	-5	23	218,9	747	188,3	2,17	7,43	1,87	100,6	0,43	2,88				

Model				
Designation	HTK70AA	220-240V/50Hz	Conf. 3	Sales code: 16128400

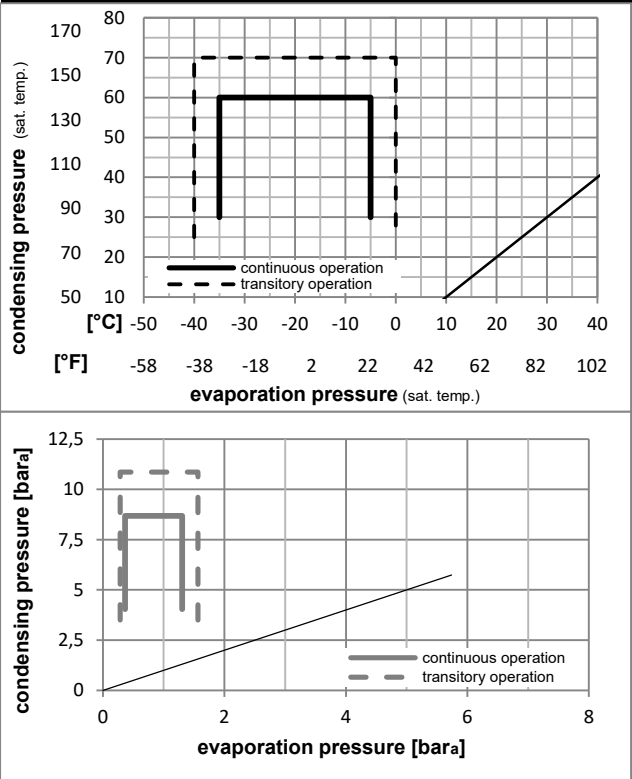
Configuration	Electrical accessories / wiring diagram			
Motor configuration	RSIR	RSIR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



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

Model

Designation **HTK70AA** **220-240V/50Hz** Conf. 3 Sales code: **16128400**

Optimization + standard conditions

R600a, 220V/50Hz, RSIR, static, VDE

Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP			EER			Power consumption			Current consumption			Ref. mass flow		
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]
[°C]	-23	54	32	32	116,9	399	100,6	1,61	5,50	1,39	72,6	0,42	1,25	ASHRAE LBP																
[°F]	-10	130	90	90																										
[°C]	-25	55	32	55	86,7	296	74,6	1,24	4,24	1,07	69,9	0,40	1,13	cecomaf LBP																
[°F]	-13	131	90	131																										
[°C]	-35	40	20	40	56,9	194	48,9	1,13	3,85	0,97	50,5	0,34	0,69	EN12900 LBP																
[°F]	-31	104	68	104																										
[°C]	-23	49	4,4	49	93,8	320	80,7	1,35	4,61	1,16	69,5	0,41	1,37	ARI540 LBP																
[°F]	-10	120	40	120																										
[°C]	-23	41	32	32	121,8	416	104,8	1,82	6,23	1,57	66,8	0,40	1,31	AHAM LBP																
[°F]	-10	105	90	90																										
[°C]	-35	45	32	45	54,0	185	46,5	1,07	3,66	0,92	50,4	0,34	0,64	opt																
[°F]	-31	113	90	113																										

Performance tables

R600a, 220V/50Hz, RSIR, static, VDE

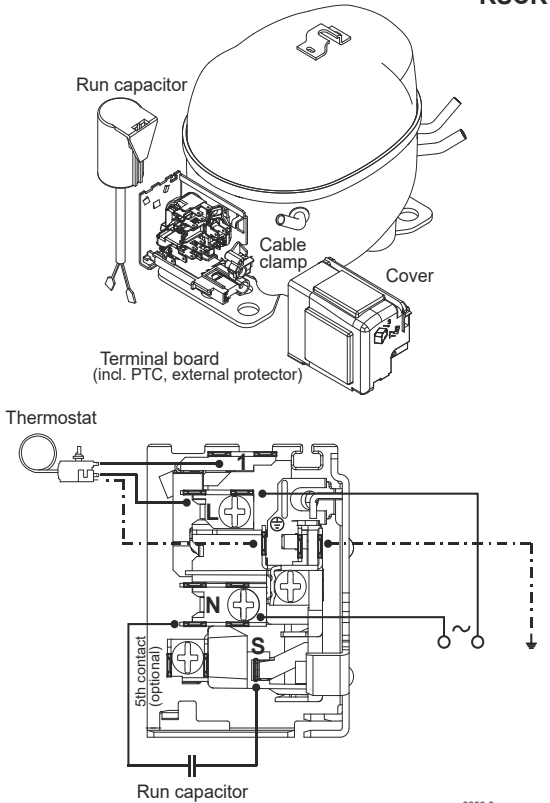
	pe		Cooling capacity			COP		EER		P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[kg/h]
[°C / °F]	-35	-31	54,0	185	46,5	1,07	3,66	0,92	50,4	0,34	0,64				
cond. pressure	-30	-22	72,8	249	62,7	1,25	4,26	1,07	58,4	0,37	0,87				
pc= 45/113	-25	-13	98,6	337	84,8	1,49	5,10	1,29	66,0	0,40	1,17				
return gas temp.	-23	-10	108,7	371	93,5	1,59	5,42	1,37	68,4	0,41	1,29				
RGT= 32/90	-20	-4	129,9	444	111,8	1,78	6,07	1,53	73,1	0,43	1,55				
liquid temp	-15	5	165,4	565	142,3	2,07	7,09	1,79	79,7	0,46	1,98				
Tliq= 45/113	-5	23	243,2	831	209,3	2,66	9,10	2,29	91,3	0,52	2,92				
[°C / °F]	-35	-31	43,6	149	37,6	0,89	3,03	0,76	49,2	0,33	0,57				
cond. pressure	-30	-22	62,1	212	53,4	1,04	3,54	0,89	59,9	0,37	0,81				
pc= 55/131	-25	-13	86,7	296	74,6	1,24	4,24	1,07	69,9	0,40	1,13				
return gas temp	-23	-10	96,2	329	82,8	1,32	4,49	1,13	73,2	0,42	1,26				
RGT= 32/90	-20	-4	116,1	397	99,9	1,47	5,00	1,26	79,2	0,44	1,52				
liquid temp	-15	5	149,0	509	128,2	1,70	5,79	1,46	87,9	0,48	1,95				
Tliq= 55/131	-5	23	219,1	748	188,6	2,13	7,29	1,84	102,7	0,57	2,88				

Model				
Designation	HTK70AA	220-240V/50Hz	Conf. 4	Sales code: 16128400

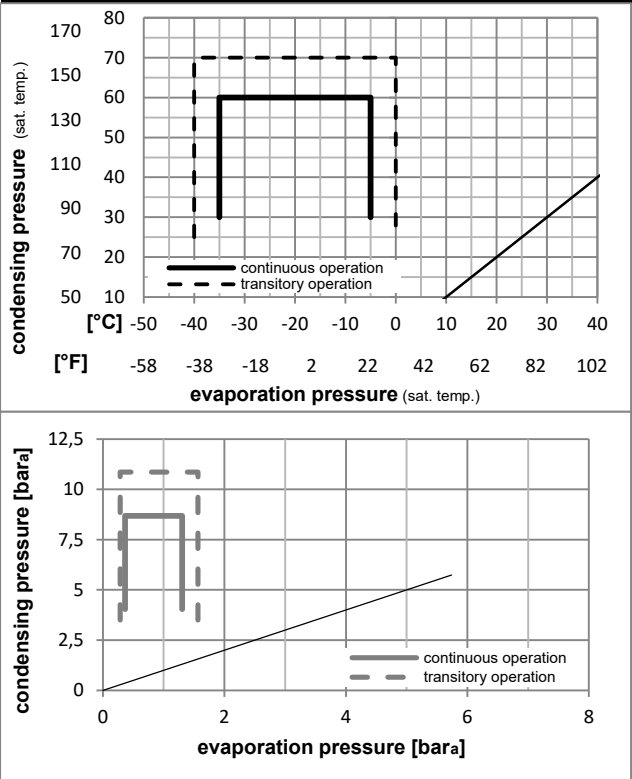
Configuration	Electrical accessories / wiring diagram			
Motor configuration	RSCR	RSCR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



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

Model

Designation **HTK70AA** **220-240V/50Hz** Conf. 4 Sales code: **16128400**

Optimization + standard conditions

R600a, 220V/50Hz, RSCR, static, VDE

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	116,7	399	100,5	1,66	5,68	1,43	70,2	0,31	1,25	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	86,6	296	74,5	1,28	4,38	1,10	67,5	0,30	1,13	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	56,8	194	48,9	1,18	4,03	1,02	48,1	0,26	0,69	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	93,7	320	80,6	1,40	4,77	1,20	67,0	0,31	1,37	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	121,7	416	104,7	1,90	6,50	1,64	63,9	0,30	1,31	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	54,0	184	46,5	1,12	3,83	0,97	48,1	0,25	0,64	opt
[°F]	-31	113	90	113										

Performance tables

R600a, 220V/50Hz, RSCR, static, VDE

	pe		Cooling capacity			COP		EER		P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[kg/h]
[°C / °F]	-35	-31	54,0	184	46,5	1,12	3,83	0,97	48,1	0,25	0,64				
cond. pressure	-30	-22	72,7	248	62,6	1,30	4,45	1,12	55,8	0,27	0,86				
pc= 45/113	-25	-13	98,5	336	84,7	1,56	5,31	1,34	63,3	0,30	1,17				
return gas temp.	-23	-10	108,5	371	93,4	1,65	5,64	1,42	65,7	0,31	1,29				
RGT= 32/90	-20	-4	129,7	443	111,7	1,84	6,30	1,59	70,4	0,32	1,55				
liquid temp	-15	5	165,2	564	142,2	2,14	7,32	1,85	77,1	0,35	1,97				
Tliq= 45/113	-5	23	242,9	830	209,1	2,73	9,31	2,35	89,1	0,40	2,92				
[°C / °F]	-35	-31	43,6	149	37,5	0,91	3,12	0,79	47,7	0,25	0,57				
cond. pressure	-30	-22	62,0	212	53,4	1,07	3,66	0,92	57,8	0,28	0,81				
pc= 55/131	-25	-13	86,6	296	74,5	1,28	4,38	1,10	67,5	0,30	1,13				
return gas temp	-23	-10	96,1	328	82,7	1,36	4,64	1,17	70,7	0,31	1,25				
RGT= 32/90	-20	-4	116,0	396	99,8	1,51	5,17	1,30	76,7	0,33	1,52				
liquid temp	-15	5	148,8	508	128,0	1,74	5,96	1,50	85,3	0,37	1,95				
Tliq= 55/131	-5	23	218,9	747	188,3	2,17	7,43	1,87	100,6	0,43	2,88				