

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

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • www.secop.com

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

Model

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

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
Motorconfiguration	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	-/-	-/-	-/-	-/-

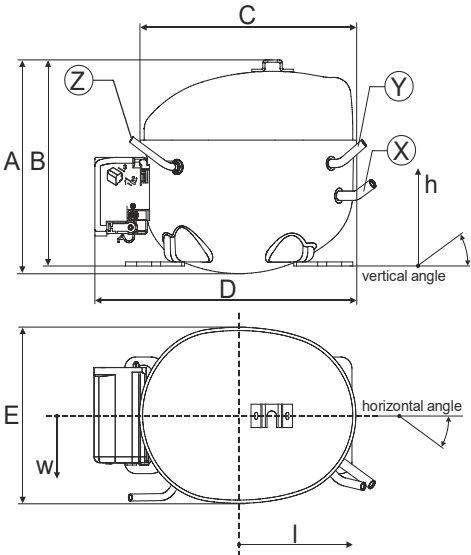
Electrical data - Configurations with HTK70AA

	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))				

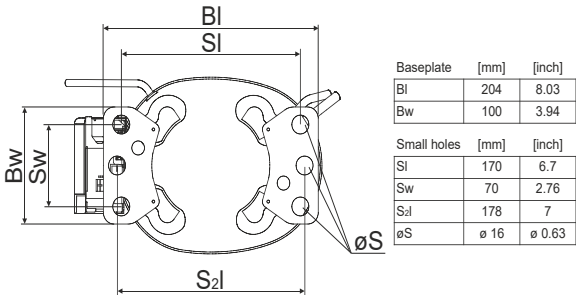
Model			
Designation	HTK70AA	220-240V/50Hz 1~	Sales code: 16128400

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
(i:inside, o:outside) [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



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

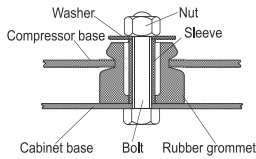
Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

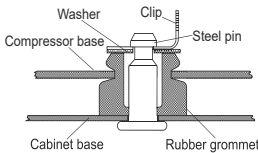
Housing with dip-tray fixture (omega bracket).

Various options of connectors are possible - please contact SECOP-Sales.

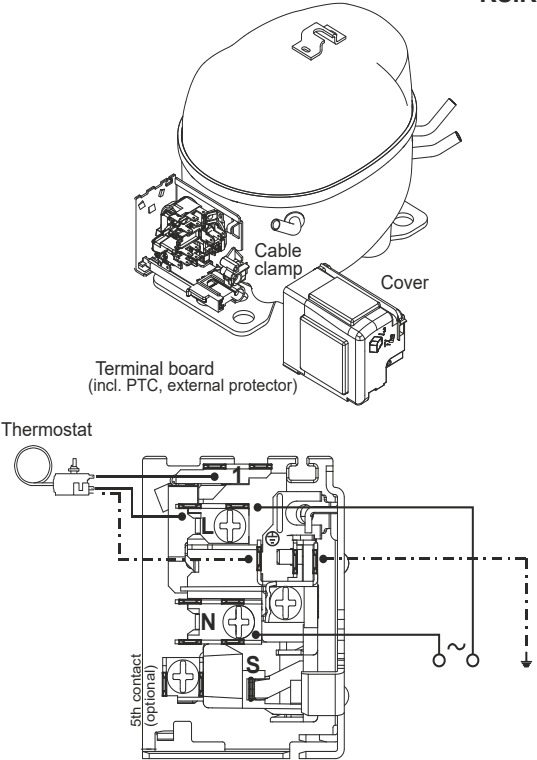
Bolt joint



Snap-on



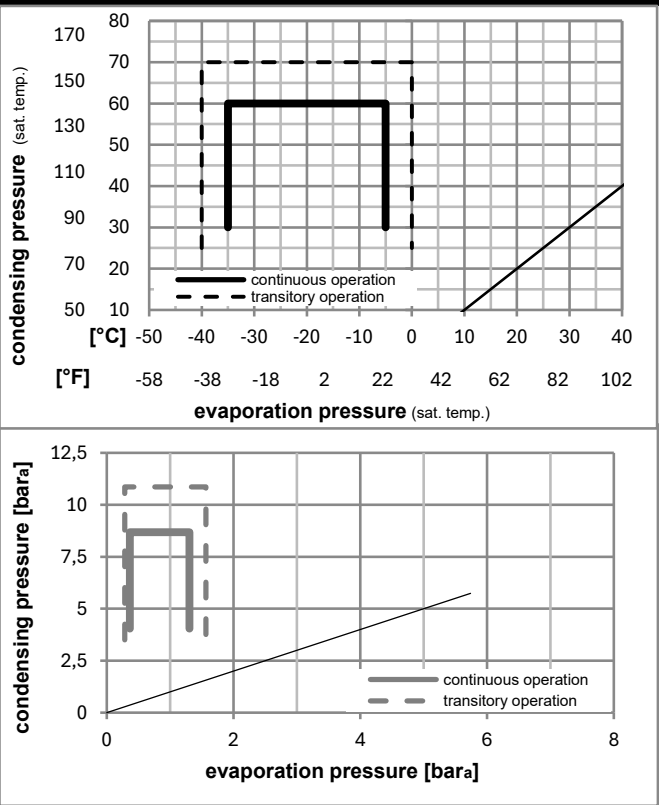
Model				
Designation	HTK70AA	220-240V/50Hz	Conf. 1	Sales code: 16128400

Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	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	11341000
.	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. 1	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]	P1	I	ṁ		
[°C]										[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]
[°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

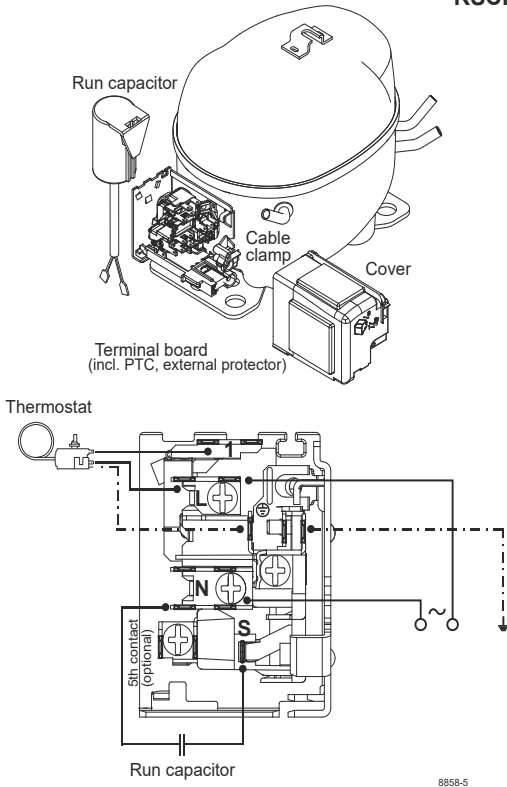
Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	RSCR	RSCR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

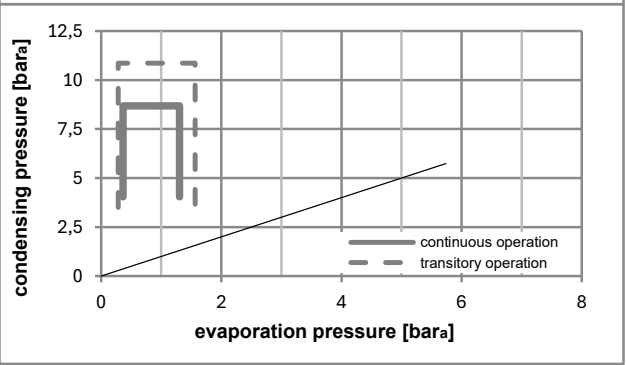
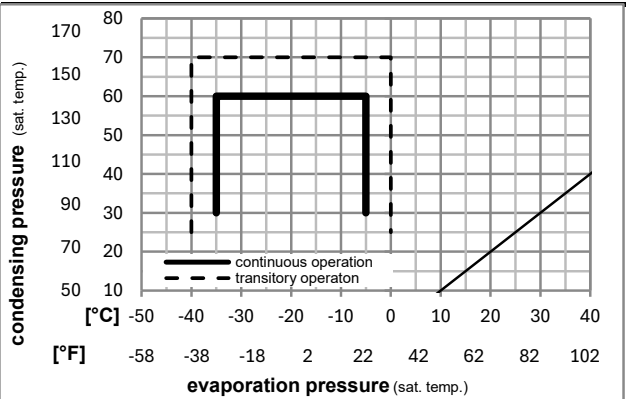
Ambient temperature range: 10 - 43°C / 50 - 110°F

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 (3µF, 4.8mm)	10692902
b	cover terminal board	10636401
.	cable clamp	11341000
.	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)					Power consumption			
					Return gas temp.		Liquid temp.		Cooling capacity	COP	EER	P1	Current consumption	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]					[Btu/Wh]	[kcal/Wh]
[°C]	-23	54	32	32										
[°F]	-10	130	90	90	116,7	399	100,5	1,66	5,68	1,43	70,2	0,31	1,25	ASHRAE LBP
[°C]	-25	55	32	55										
[°F]	-13	131	90	131	86,6	296	74,5	1,28	4,38	1,10	67,5	0,30	1,13	cecomaf LBP
[°C]	-35	40	20	40										
[°F]	-31	104	68	104	56,8	194	48,9	1,18	4,03	1,02	48,1	0,26	0,69	EN12900 LBP
[°C]	-23	49	4,4	49										
[°F]	-10	120	40	120	93,7	320	80,6	1,40	4,77	1,20	67,0	0,31	1,37	ARI540 LBP
[°C]	-23	41	32	32										
[°F]	-10	105	90	90	121,7	416	104,7	1,90	6,50	1,64	63,9	0,30	1,31	AHAM LBP
[°C]	-35	45	32	45										
[°F]	-31	113	90	113	54,0	184	46,5	1,12	3,83	0,97	48,1	0,25	0,64	opt

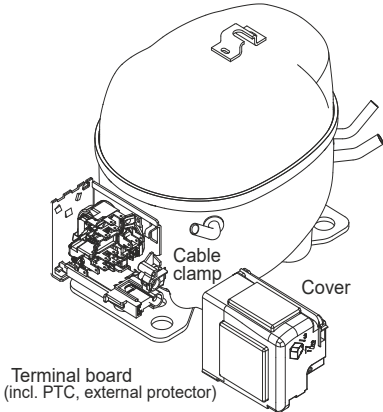
Performance tables

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

	pe		Cooling capacity			COP	EER		P1	l	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[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

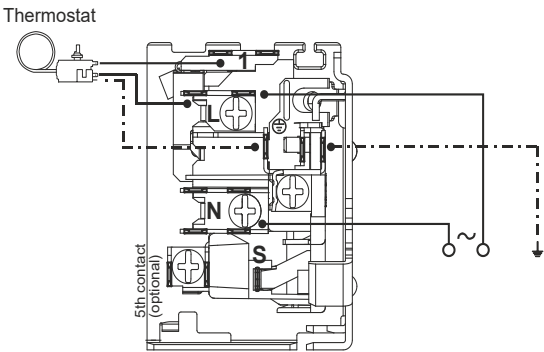
Model				
Designation	HTK70AA	220-240V/50Hz	Conf. 3	Sales code: 16128400

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

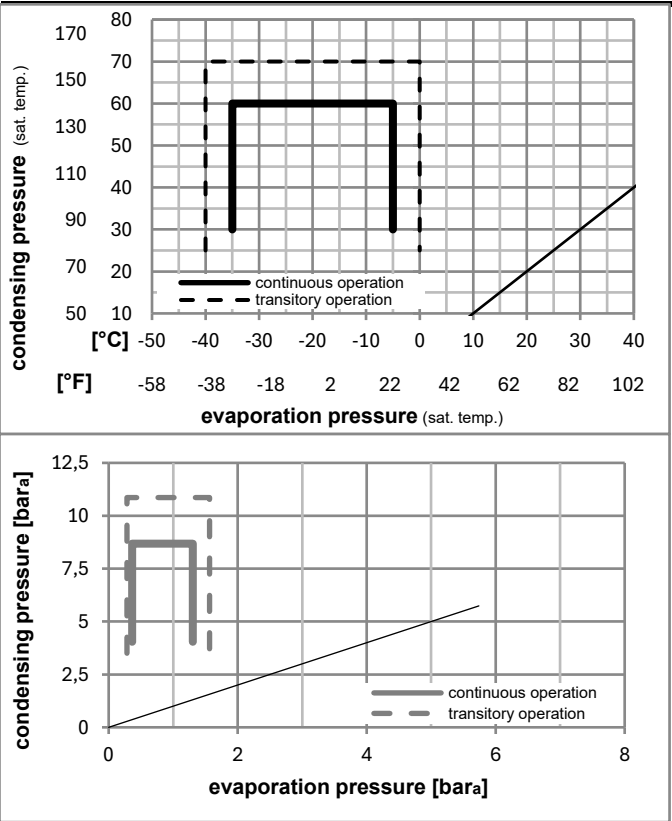


Ambient/ machine room temperatures minimum /maximum

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	11341000	
. 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

[illegible]

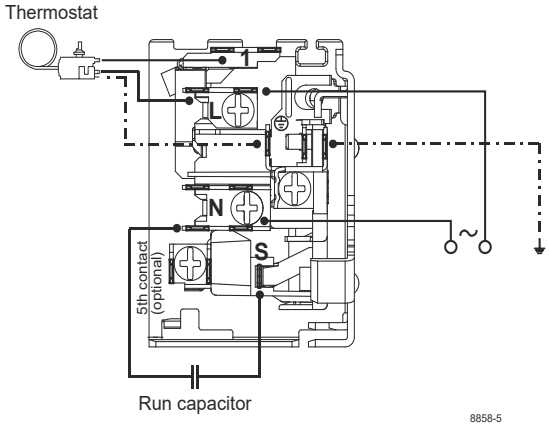
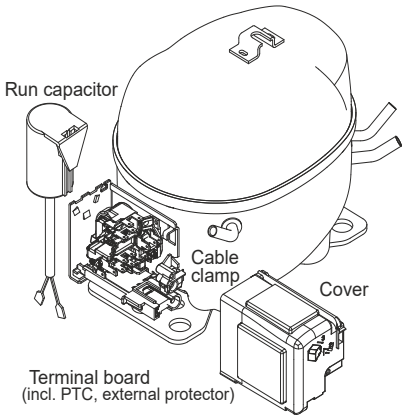
Performance tables

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

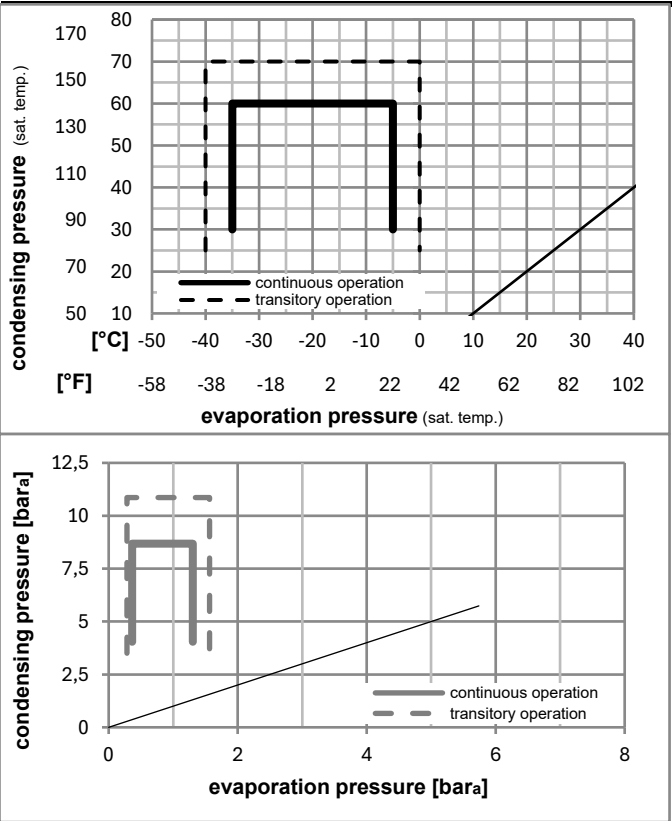
Model				
Designation	HTK70AA	220-240V/50Hz	Conf. 4	Sales code: 16128400

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	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	11341000	
. 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

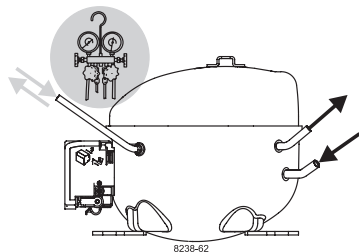
R600a, 220V/50Hz, RSCR, static, VDE

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

Performance tables

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

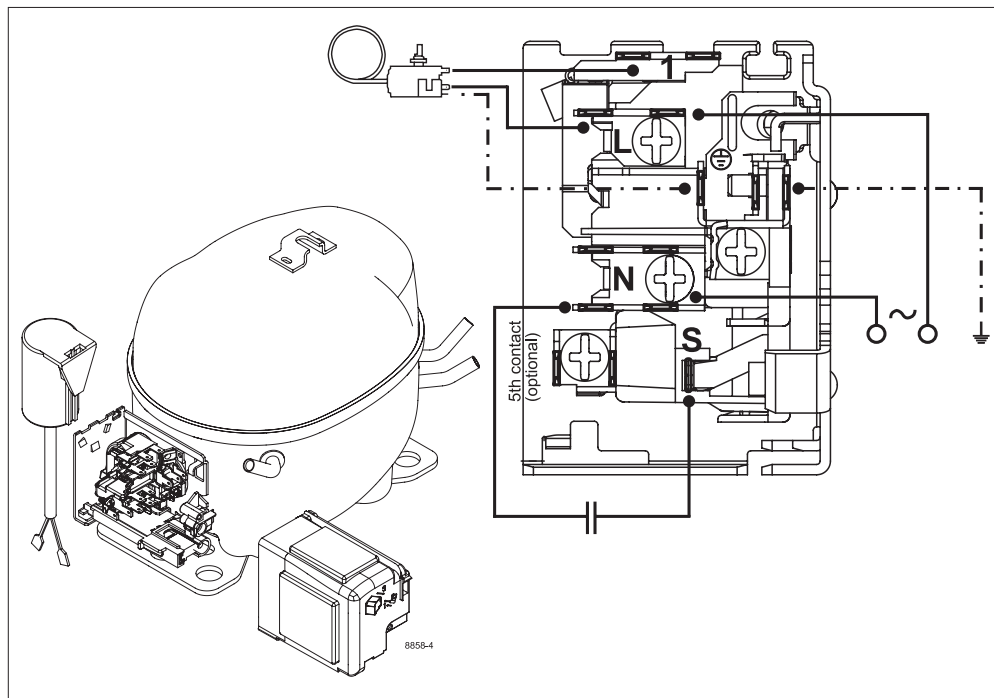
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	54,0	184	46,5	1,12	3,83	0,97	48,1	0,25	0,64
cond. pressure	-30	-22	72,7	248	62,6	1,30	4,45	1,12	55,8	0,27	0,86
pc= 45/113	-25	-13	98,5	336	84,7	1,56	5,31	1,34	63,3	0,30	1,17
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



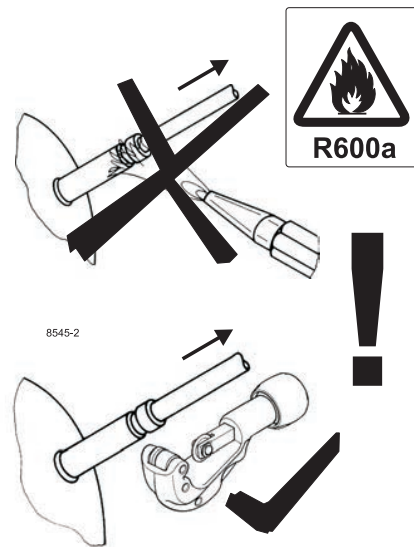
K-Series Compressors

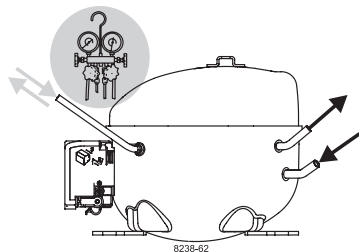
GTK, HKK, HMK, HTK, HXK, HZK

SECCP



Service/Repair – R600a

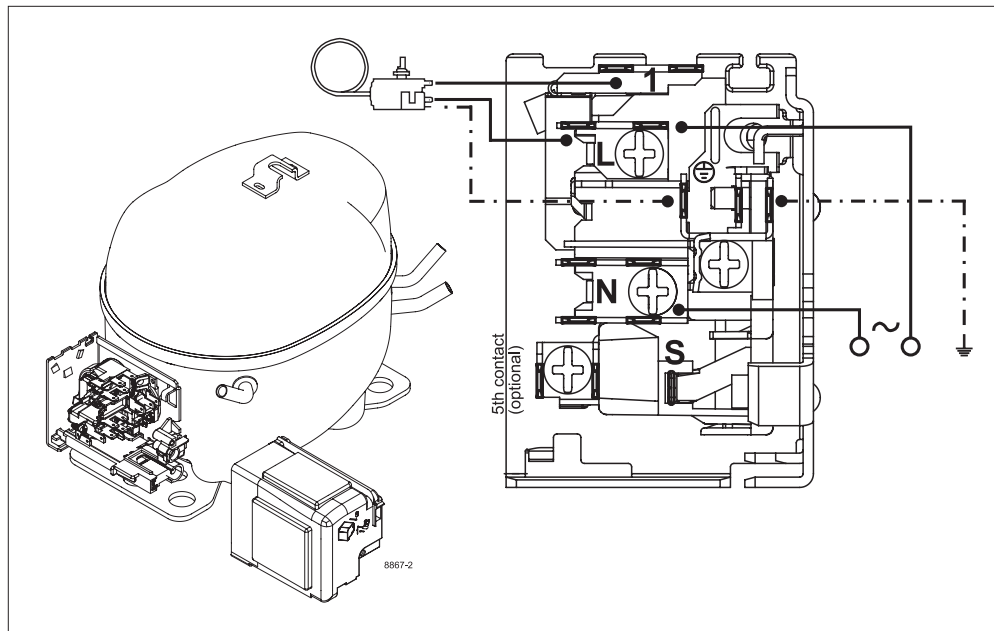




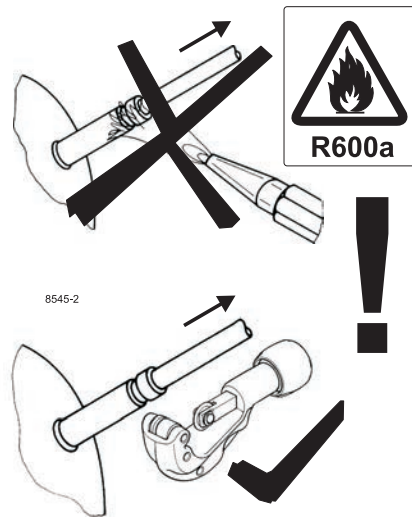
K-Series Compressors

GTK, HKK, HMK, HTK, HXK, HZK

SECOP



Service/Repair – R600a



Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved. www.secop.com