

Model

Designation	HXK70AA	220-240V/50Hz 1~	Sales code:	16363600
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	6,64cm ³ / 0,41cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1660cm ³ / 56,1fl.oz		
Weight	8,2kg / 18,1lbs		
Motor protection	external		
Winding resistance main	37,1Ω (at 25°C)		
Winding resistance aux	28,9Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HXK70AA

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motorconfiguration	eRSCR	eRSCR	RSCR	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 HXK70AA

	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	-/-	-/-	-/-	-/-

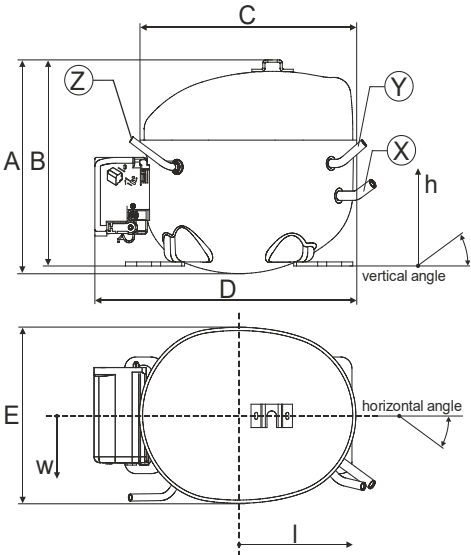
Electrical data - Configurations with HXK70AA

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Starting device type	e-PTC	e-PTC	PTC	PTC
Run capacitor	3μF	3μF	3μF	3μF
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))				

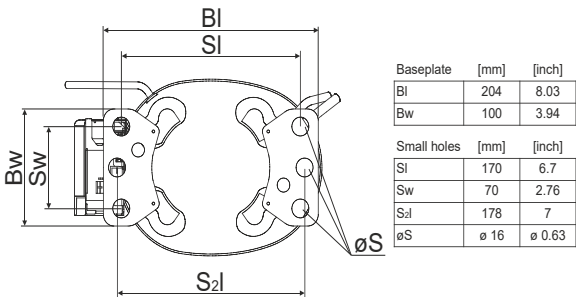
Model			
Designation	HXK70AA	220-240V/50Hz 1~	Sales code: 16363600

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	
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



Compressor fixation

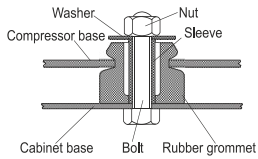


Mounting accessories

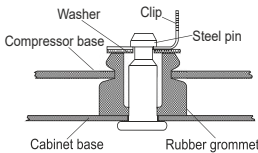
- '4ZN' with rubber grommet
- '4ZN' with rubber grommet and sleeve for M6
- Bolt joint kit
- '4ZN' with Snap on kit

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

Bolt joint



Snap-on



Application notes

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

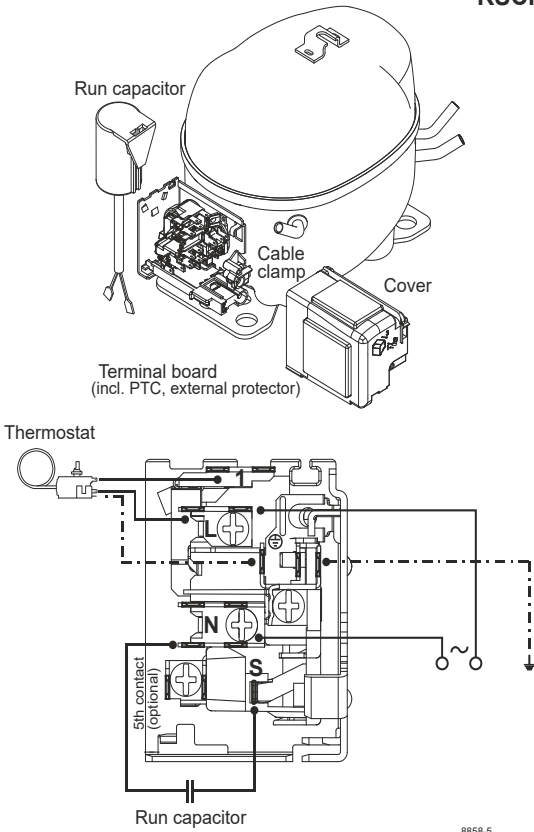
Various options of connectors are possible - please contact SECOP-Sales.

Model				
Designation	HXK70AA	220-240V/50Hz	Conf. 1	Sales code: 16363600

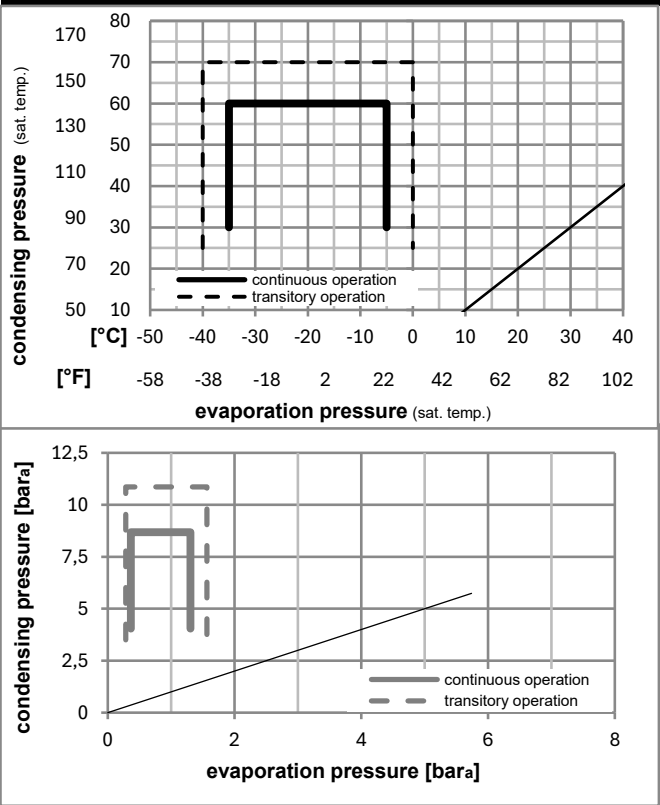
Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	eRSCR	RSCR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

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 (e-PTC, 4.8mm)	15624200
.	run capacitor (3μF, 4.8mm)	10692902
b	cover terminal board	10636401
.	Cable clamp (screws not included)	11341000
.	screw - uni6954	10636000
.	screw - uni6954	10636200

Alternative components

.	screw uni en iso 4757	10641201
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Model											
Designation	HXK70AA	220-240V/50Hz	Conf. 1	Sales code:	16363600						

Optimization + standard conditions

R600a, 220V/50Hz, eRSCR, 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	m	
[°C]	-23	54	32	32							[W]	[A]	[kg/h]	ASHRAE LBP
[°F]	-10	130	90	90	118,1	403	101,7	1,86	6,34	1,60	63,6	0,29	1,27	
[°C]	-25	55	32	55	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	65,6	224	56,5	1,38	4,71	1,19	47,6	0,22	0,80	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	96,3	329	82,9	1,57	5,35	1,35	61,5	0,28	1,41	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	127,8	436	110,0	2,17	7,42	1,87	58,8	0,27	1,37	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72	opt
[°F]	-31	113	90	113										

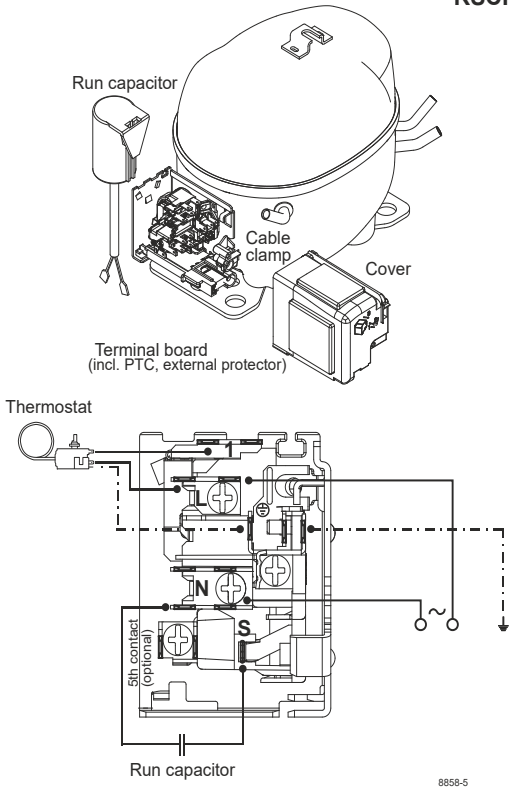
Performance tables

R600a, 220V/50Hz, eRSCR, 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	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72
cond. pressure	-30	-22	79,3	271	68,2	1,54	5,28	1,33	51,3	0,23	0,94
pc= 45/113	-25	-13	103,3	353	88,9	1,79	6,11	1,54	57,8	0,26	1,23
return gas temp.	-23	-10	112,6	385	96,9	1,87	6,39	1,61	60,2	0,27	1,34
RGT= 32/90	-20	-4	132,5	452	114,0	2,03	6,93	1,75	65,3	0,30	1,58
liquid temp	-15	5	166,8	570	143,5	2,27	7,75	1,95	73,5	0,33	1,99
Tliq= 45/113	-5	23	250,9	857	215,9	2,75	9,39	2,37	91,2	0,41	3,01
[°C / °F]	-35	-31	46,5	159	40,1	1,09	3,71	0,94	42,8	0,19	0,61
cond. pressure	-30	-22	65,0	222	55,9	1,27	4,34	1,09	51,1	0,23	0,85
pc= 55/131	-25	-13	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15
return gas temp	-23	-10	97,0	331	83,5	1,52	5,19	1,31	63,9	0,29	1,27
RGT= 32/90	-20	-4	115,9	396	99,8	1,64	5,60	1,41	70,7	0,32	1,51
liquid temp	-15	5	148,4	507	127,7	1,82	6,22	1,57	81,5	0,37	1,94
Tliq= 55/131	-5	23	227,5	777	195,8	2,19	7,49	1,89	103,7	0,47	2,99

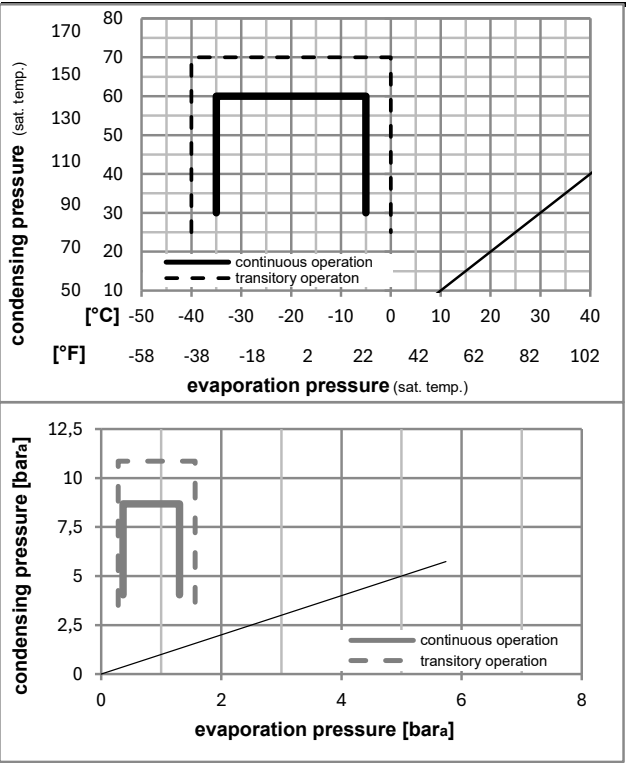
Model				
Designation	HXK70AA	220-240V/50Hz	Conf. 2	Sales code: 16363600

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	eRSCR	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 (e-PTC, 4.8mm)	15624200
. run capacitor (3μF, 4.8mm)	10693200
b cover terminal board	10636401
. Cable clamp (screws not included)	11341000
. screw - uni6954	10636000
. screw - uni6954	10636200

Alternative components	
. screw uni en iso 4757	10641201

Model														
Designation	HXK70AA			220-240V/50Hz			Conf. 2			Sales code:			16363600	

Optimization + standard conditions

R600a, 220V/50Hz, eRSCR, 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	m	
[°C]	-23	54	32	32	118,1	403	101,7	1,86	6,34	1,60	63,6	0,29	1,27	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	65,6	224	56,5	1,38	4,71	1,19	47,6	0,22	0,80	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	96,3	329	82,9	1,57	5,35	1,35	61,5	0,28	1,41	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	127,8	436	110,0	2,17	7,42	1,87	58,8	0,27	1,37	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72	opt
[°F]	-31	113	90	113										

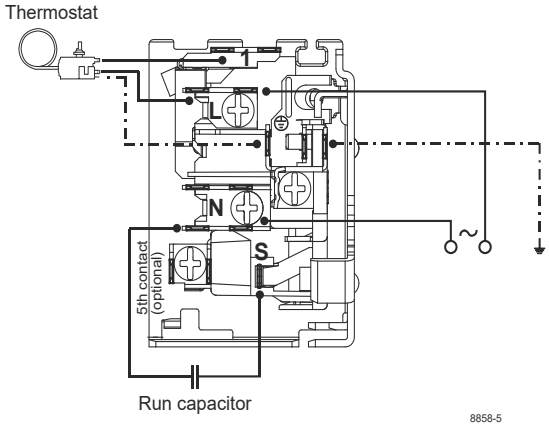
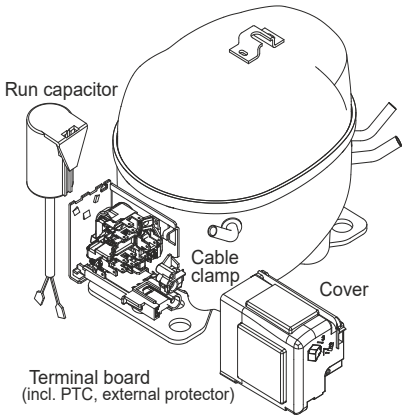
Performance tables

R600a, 220V/50Hz, eRSCR, 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	60,5	206	52,0	1,31		4,47	1,13	46,2	0,21	0,72
cond. pressure	-30	-22	79,3	271	68,2	1,54		5,28	1,33	51,3	0,23	0,94
pc= 45/113	-25	-13	103,3	353	88,9	1,79		6,11	1,54	57,8	0,26	1,23
return gas temp.	-23	-10	112,6	385	96,9	1,87		6,39	1,61	60,2	0,27	1,34
RGT= 32/90	-20	-4	132,5	452	114,0	2,03		6,93	1,75	65,3	0,30	1,58
liquid temp	-15	5	166,8	570	143,5	2,27		7,75	1,95	73,5	0,33	1,99
Tliq= 45/113	-5	23	250,9	857	215,9	2,75		9,39	2,37	91,2	0,41	3,01
[°C / °F]	-35	-31	46,5	159	40,1	1,09		3,71	0,94	42,8	0,19	0,61
cond. pressure	-30	-22	65,0	222	55,9	1,27		4,34	1,09	51,1	0,23	0,85
pc= 55/131	-25	-13	88,1	301	75,8	1,46		4,97	1,25	60,5	0,28	1,15
return gas temp	-23	-10	97,0	331	83,5	1,52		5,19	1,31	63,9	0,29	1,27
RGT= 32/90	-20	-4	115,9	396	99,8	1,64		5,60	1,41	70,7	0,32	1,51
liquid temp	-15	5	148,4	507	127,7	1,82		6,22	1,57	81,5	0,37	1,94
Tliq= 55/131	-5	23	227,5	777	195,8	2,19		7,49	1,89	103,7	0,47	2,99

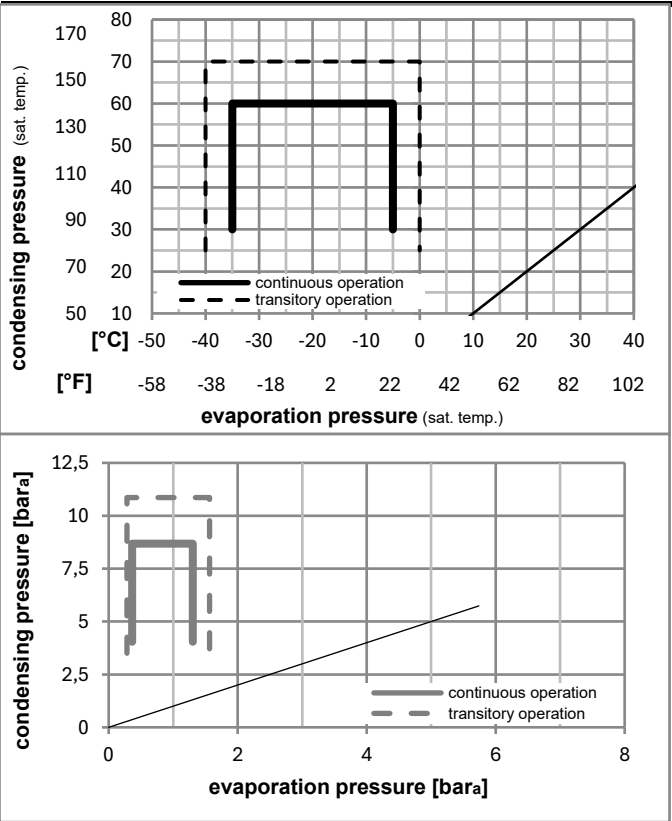
Model				
Designation	HXK70AA	220-240V/50Hz	Conf. 3	Sales code: 16363600

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)	15163700	
. run capacitor (3µF, 4.8mm)	10693200	
b cover terminal board	10636401	
. Cable clamp (screws not included)	11341000	
. screw - uni6954	10636000	
. screw - uni6954	10636200	

Alternative components		
. run capacitor (3µF, 4.8mm)	10692902	
. screw uni en iso 4757	10641201	

Model											
Designation	HXK70AA			220-240V/50Hz			Conf. 3		Sales code:		16363600

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]	P1	I	m		
											[W]	[A]	[kg/h]		
[°C]	-23	54	32	32											
[°F]	-10	130	90	90	118,1	403	101,7	1,86	6,34	1,60	63,6	0,29	1,27	ASHRAE LBP	
[°C]	-25	55	32	55											
[°F]	-13	131	90	131	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15	cecomaf LBP	
[°C]	-35	40	20	40											
[°F]	-31	104	68	104	65,6	224	56,5	1,38	4,71	1,19	47,6	0,22	0,80	EN12900 LBP	
[°C]	-23	49	4,4	49											
[°F]	-10	120	40	120	96,3	329	82,9	1,57	5,35	1,35	61,5	0,28	1,41	ARI540 LBP	
[°C]	-23	41	32	32											
[°F]	-10	105	90	90	127,8	436	110,0	2,17	7,42	1,87	58,8	0,27	1,37	AHAM LBP	
[°C]	-35	45	32	45											
[°F]	-31	113	90	113	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72	opt	

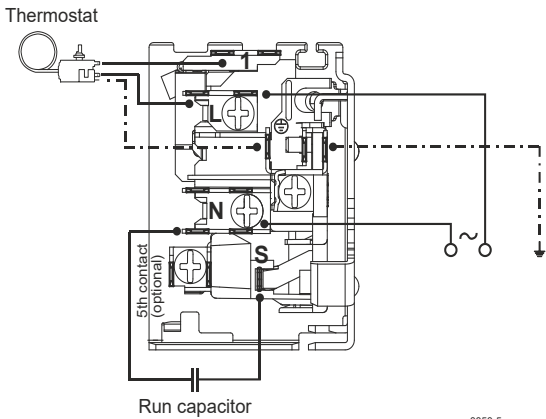
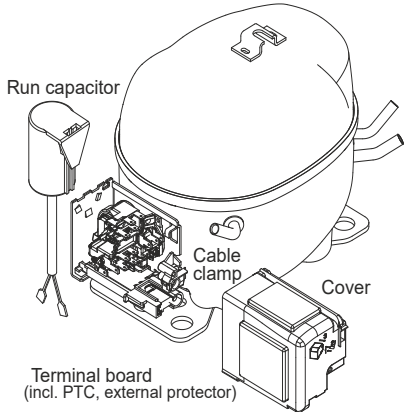
Performance tables

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	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72
cond. pressure	-30	-22	79,3	271	68,2	1,54	5,28	1,33	51,3	0,23	0,94
pc= 45/113	-25	-13	103,3	353	88,9	1,79	6,11	1,54	57,8	0,26	1,23
return gas temp.	-23	-10	112,6	385	96,9	1,87	6,39	1,61	60,2	0,27	1,34
RGT= 32/90	-20	-4	132,5	452	114,0	2,03	6,93	1,75	65,3	0,30	1,58
liquid temp	-15	5	166,8	570	143,5	2,27	7,75	1,95	73,5	0,33	1,99
Tliq= 45/113	-5	23	250,9	857	215,9	2,75	9,39	2,37	91,2	0,41	3,01
[°C / °F]	-35	-31	46,5	159	40,1	1,09	3,71	0,94	42,8	0,19	0,61
cond. pressure	-30	-22	65,0	222	55,9	1,27	4,34	1,09	51,1	0,23	0,85
pc= 55/131	-25	-13	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15
return gas temp	-23	-10	97,0	331	83,5	1,52	5,19	1,31	63,9	0,29	1,27
RGT= 32/90	-20	-4	115,9	396	99,8	1,64	5,60	1,41	70,7	0,32	1,51
liquid temp	-15	5	148,4	507	127,7	1,82	6,22	1,57	81,5	0,37	1,94
Tliq= 55/131	-5	23	227,5	777	195,8	2,19	7,49	1,89	103,7	0,47	2,99

Model				
Designation	HXK70AA	220-240V/50Hz	Conf. 4	Sales code: 16363600

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			



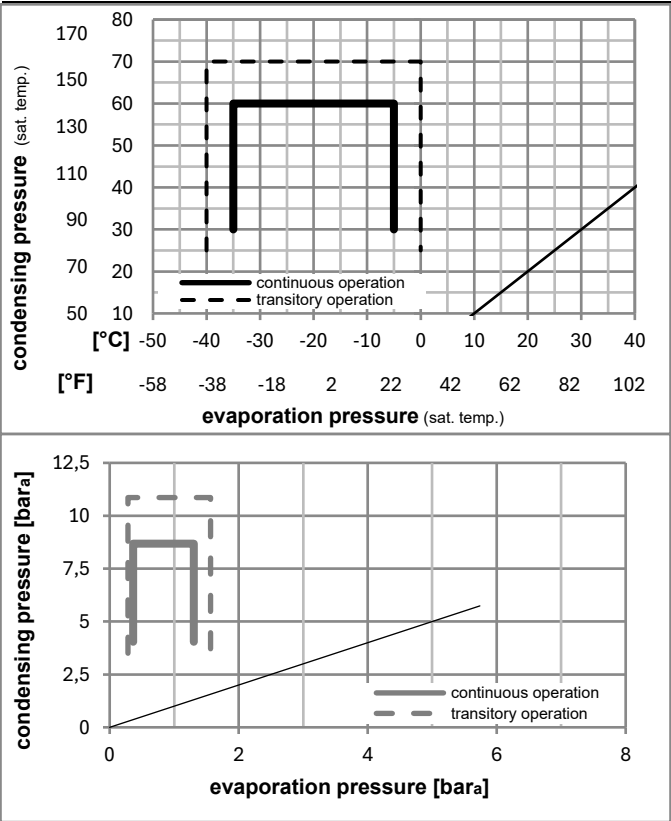
Ambient/ machine room temperatures minimum /maximum

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)	15162200
.	run capacitor (3µF, 6.3mm)	15312801
b	cover terminal board	10636401
.	Cable clamp (screws not included)	11341000
.	screw - uni6954	10636000
.	screw - uni6954	10636200

Alternative components		
.	screw uni en iso 4757	10641201

Model														
Designation	HXK70AA			220-240V/50Hz			Conf. 4			Sales code:			16363600	

Optimization + standard conditions

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

	Evaporating pressure (saturation temperature)										Condensing pressure (saturation temperature)				Power consumption				
														Current consumption					
Cooling capacity					COP		EER		P1	I	ṁ								
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]							
[°C]	-23	54	32	32	118,1	403	101,7	1,86	6,34	1,60	63,6	0,29	1,27	ASHRAE LBP					
[°F]	-10	130	90	90															
[°C]	-25	55	32	55	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15	cecomaf LBP					
[°F]	-13	131	90	131															
[°C]	-35	40	20	40	65,6	224	56,5	1,38	4,71	1,19	47,6	0,22	0,80	EN12900 LBP					
[°F]	-31	104	68	104															
[°C]	-23	49	4,4	49	96,3	329	82,9	1,57	5,35	1,35	61,5	0,28	1,41	ARI540 LBP					
[°F]	-10	120	40	120															
[°C]	-23	41	32	32	127,8	436	110,0	2,17	7,42	1,87	58,8	0,27	1,37	AHAM LBP					
[°F]	-10	105	90	90															
[°C]	-35	45	32	45	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72	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]
[°C / °F]	-35	-31	60,5	206	52,0	1,31	4,47	1,13	46,2	0,21	0,72
cond. pressure	-30	-22	79,3	271	68,2	1,54	5,28	1,33	51,3	0,23	0,94
pc= 45/113	-25	-13	103,3	353	88,9	1,79	6,11	1,54	57,8	0,26	1,23
return gas temp.	-23	-10	112,6	385	96,9	1,87	6,39	1,61	60,2	0,27	1,34
RGT= 32/90	-20	-4	132,5	452	114,0	2,03	6,93	1,75	65,3	0,30	1,58
liquid temp	-15	5	166,8	570	143,5	2,27	7,75	1,95	73,5	0,33	1,99
Tliq= 45/113	-5	23	250,9	857	215,9	2,75	9,39	2,37	91,2	0,41	3,01
[°C / °F]	-35	-31	46,5	159	40,1	1,09	3,71	0,94	42,8	0,19	0,61
cond. pressure	-30	-22	65,0	222	55,9	1,27	4,34	1,09	51,1	0,23	0,85
pc= 55/131	-25	-13	88,1	301	75,8	1,46	4,97	1,25	60,5	0,28	1,15
return gas temp	-23	-10	97,0	331	83,5	1,52	5,19	1,31	63,9	0,29	1,27
RGT= 32/90	-20	-4	115,9	396	99,8	1,64	5,60	1,41	70,7	0,32	1,51
liquid temp	-15	5	148,4	507	127,7	1,82	6,22	1,57	81,5	0,37	1,94
Tliq= 55/131	-5	23	227,5	777	195,8	2,19	7,49	1,89	103,7	0,47	2,99