

Single Pack HXK87AT 200-240V 50Hz / 208-230V 60Hz RSIR

Single pack code number: **195B4618**

Position	Title	Code	Amount
1	Compressor HXK87AT	16408900	1
2	Clip	10633900	4
3	Steel pin	10634100	4
4	Washer	10634300	4
5	Screw for cable clamp	10636000	1
6	Screw for cable clamp	10636200	1
7	Cover	10636401	1
8	Earth screw	10641201	1
9	Rubber grommet 16mm	11322600	4
10	Cable clamp	11341000	1
11	Terminal board 6.3mm	16403700	1

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Model

Designation	HXK87AT	220-240V/50Hz 1~	Sales code:	16408900
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	8,8cm ³ / 0,54cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1620cm ³ / 54,8fl.oz		
Weight	8,6kg / 19lbs		
Motor protection	external		
Winding resistance main	18,8Ω (at 25°C)		
Winding resistance aux	10,7Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HXK87AT

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motorconfiguration	RSCR	RSIR	RSCR	RSCR
Power supply (nominal)	200-240V/50Hz	200-240V/50Hz	220-240V/50Hz	208-230V/60Hz
Number of phases	1	1	1	1
Voltage range	170-264V	170-264V	170-264V	198-253V
Approvals	VDE	VDE	VDE	VDE
Starting torque	LST	LST	LST	LST
Note	Various options of connectors are possible - please contact SECOP-Sales.			

Applications with HXK87AT

	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 HXK87AT

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

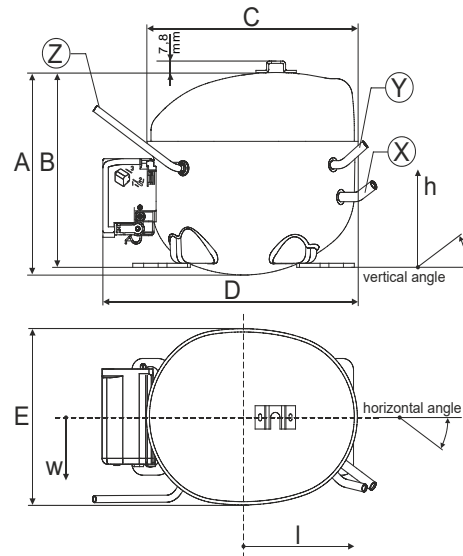
Model

Designation	HXK87AT	220-240V/50Hz 1~	Sales code:	16408900
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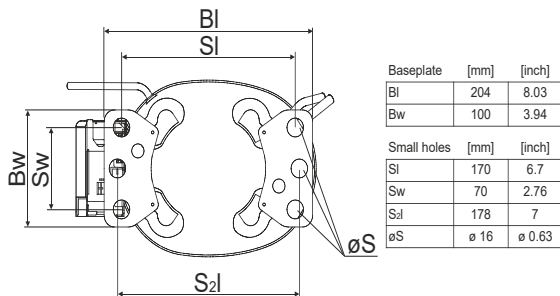
Compressor dimensions

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

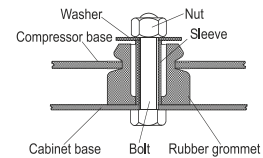
Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 6,1-6,2	øi 5,1-5,2	øo 5,92-6,08
	(i:inside, o:outside) [in]	øi 0,24-0,24	øi 0,2-0,2	øo 0,23-0,24
Material		copper	copper	copper
Horizontal angle	±2°	45°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	120/72/62	112/106/62	-140/136/70
	[in]	4,7/2,8/2,4	4,4/4,2/2,4	-5,5/5,4/2,8
Straight tube l.	[mm]	14	14	75
	[in]	0,5	0,5	3



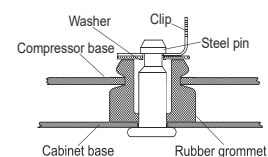
Compressor fixation



Bolt joint



Snap-on



Mounting accessories

	order code
'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

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.

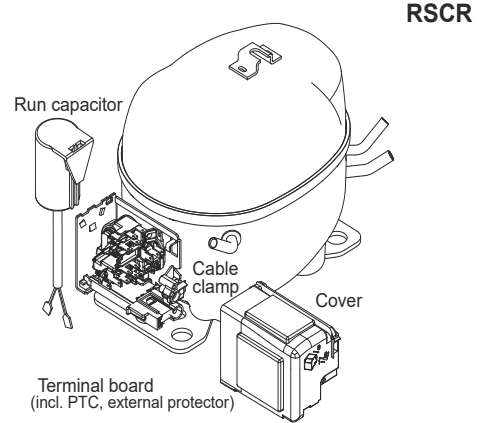
Model

Designation	HXK87AT	200-240V/50Hz	Conf. 1	Sales code:	16408900
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Configuration

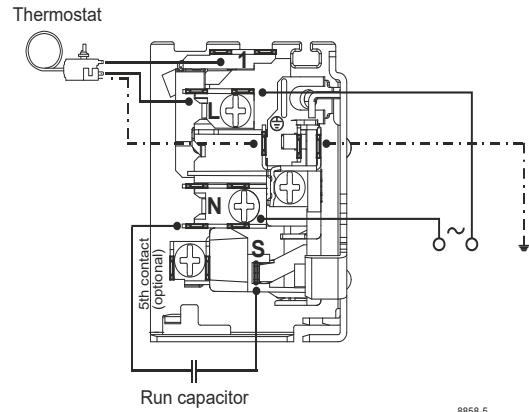
Motorconfiguration	RSCR
Power supply (nominal)	200-240V/50Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	170-264V
Starting torque	LST
Approvals	VDE

Electrical accessories / wiring diagram

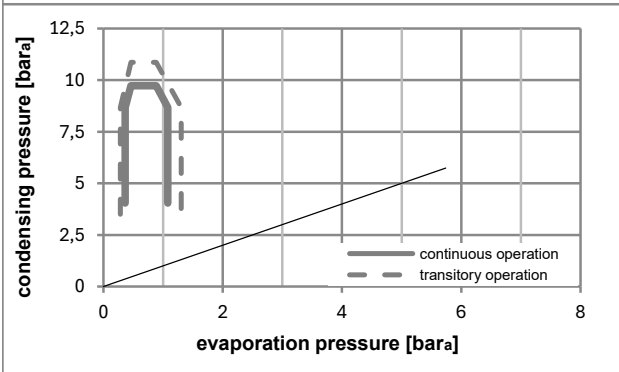
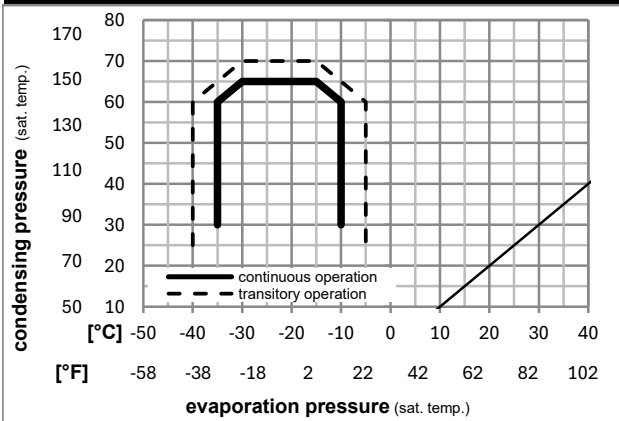


Ambient/ machine room temperatures minimum /maximum

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)	16403700
. 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
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Model

Designation	HXK87AT	200-240V/50Hz	Conf. 1	Sales code:	16408900
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Optimization + standard conditions

R600a, 200V/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				
[°C]	[°F]	[°C]	[°F]	[°C]	[°C]																		
-23	-10	54	130	32	90	153,8	525	132,3	1,75	5,97	1,50	88,0	0,45	1,65								ASHRAE LBP	
-25	-13	55	131	32	90	115,9	396	99,8	1,37	4,67	1,18	84,7	0,43	1,51								cecomaf LBP	
-35	-31	40	104	20	68	90,6	309	77,9	1,37	4,70	1,18	65,9	0,31	1,10								EN12900 LBP	
-23	-10	49	120	4,4	40	124,2	424	106,9	1,45	4,96	1,25	85,6	0,45	1,81								ARI540 LBP	
-23	-10	41	105	32	90	161,5	552	139,0	1,99	6,78	1,71	81,3	0,43	1,73								AHAM LBP	
-35	-31	45	113	32	90	87,9	300	75,7	1,31	4,48	1,13	67,1	0,29	1,04								opt	

Performance tables

R600a, 200V/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	87,9	300	75,7	1,31	4,48	1,13	67,1	0,29	1,04
cond. pressure	-30	-22	105,3	360	90,6	1,44	4,93	1,24	73,0	0,37	1,25
pc= 45/113	-25	-13	132,5	452	114,0	1,64	5,60	1,41	80,7	0,42	1,58
return gas temp.	-23	-10	143,8	491	123,8	1,72	5,87	1,48	83,7	0,44	1,71
RGT= 32/90	-20	-4	168,8	576	145,2	1,88	6,42	1,62	89,8	0,47	2,01
liquid temp	-15	5	213,5	729	183,7	2,14	7,31	1,84	99,8	0,51	2,55
Tliq= 45/113	-10	14	265,8	908	228,8	2,41	8,24	2,08	110,1	0,55	3,18
[°C / °F]	-35	-31	72,2	247	62,1	1,07	3,67	0,92	67,2	0,25	0,94
cond. pressure	-30	-22	90,1	308	77,6	1,20	4,10	1,03	75,1	0,36	1,17
pc= 55/131	-25	-13	115,9	396	99,8	1,37	4,67	1,18	84,7	0,43	1,51
return gas temp	-23	-10	126,3	432	108,7	1,43	4,89	1,23	88,3	0,46	1,65
RGT= 32/90	-20	-4	148,8	508	128,1	1,56	5,32	1,34	95,6	0,49	1,94
liquid temp	-15	5	188,2	643	162,0	1,76	6,00	1,51	107,2	0,55	2,46
Tliq= 55/131	-10	14	233,3	797	200,8	1,96	6,69	1,69	119,0	0,59	3,06

Model

Designation **HXK87AT** **200-240V/50Hz** Conf. 2 Sales code: **16408900**

Configuration

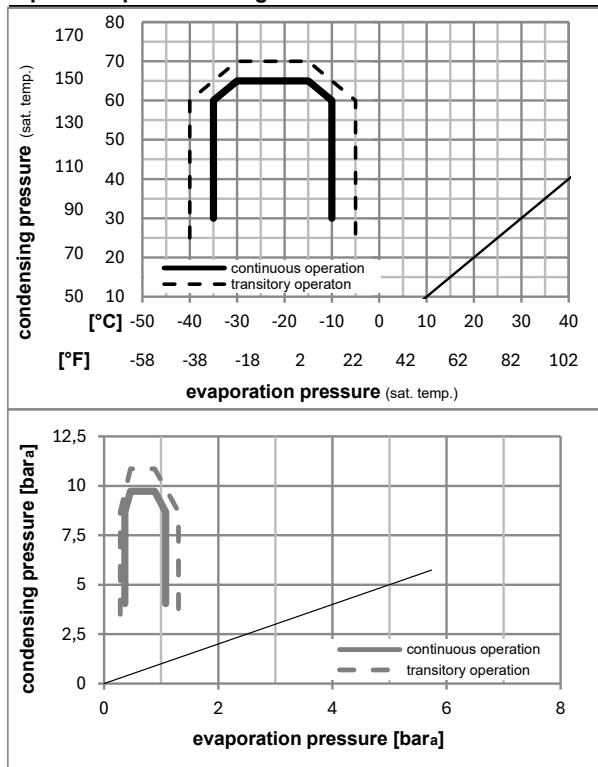
Electrical accessories / wiring diagram

Motorconfiguration RSIR
 Power supply (nominal) 200-240V/50Hz 1~
 Refrigerant R600a
 Application LBP
 Voltage range 170-264V
 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) 16403700
- b cover terminal board 10636401
- . cable clamp 11341000
- . screw - uni6954 10636000
- . screw - uni6954 10636200
- . screw uni en iso 4757 10641201

Model

Designation	HXK87AT	200-240V/50Hz	Conf. 2	Sales code:	16408900
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Optimization + standard conditions

R600a, 200V/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				
[°C]	[°F]	[°C]	[°F]	[°C]	[°C]																		
-23	-10	54	130	32	32	153,7	525	132,3	1,67	5,70	1,44	92,2	0,48	1,65								ASHRAE LBP	
-25	-13	55	131	32	55	115,9	396	99,7	1,31	4,46	1,12	88,7	0,45	1,51								cecomaf LBP	
-35	-31	40	104	20	40	90,5	309	77,9	1,31	4,48	1,13	69,0	0,32	1,10								EN12900 LBP	
-23	-10	49	120	4,4	49	124,2	424	106,9	1,39	4,73	1,19	89,6	0,47	1,81								ARI540 LBP	
-23	-10	41	105	32	32	161,5	551	138,9	1,90	6,47	1,63	85,2	0,45	1,73								AHAM LBP	
-35	-31	45	113	32	45	87,9	300	75,7	1,25	4,27	1,08	70,3	0,31	1,04								opt	

Performance tables

R600a, 200V/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	87,9	300	75,7	1,25	4,27	1,08	70,3	0,31	1,04	
cond. pressure	-30	-22	105,3	360	90,6	1,38	4,70	1,19	76,4	0,39	1,25	
pc= 45/113	-25	-13	132,4	452	114,0	1,57	5,35	1,35	84,5	0,44	1,58	
return gas temp.	-23	-10	143,8	491	123,7	1,64	5,60	1,41	87,6	0,46	1,71	
RGT= 32/90	-20	-4	168,7	576	145,2	1,79	6,13	1,54	94,1	0,49	2,01	
liquid temp	-15	5	213,4	729	183,7	2,04	6,98	1,76	104,5	0,53	2,55	
Tliq= 45/113	-10	14	265,8	908	228,7	2,30	7,87	1,98	115,3	0,58	3,18	
[°C / °F]	-35	-31	72,2	246	62,1	1,03	3,50	0,88	70,4	0,26	0,94	
cond. pressure	-30	-22	90,1	308	77,5	1,15	3,91	0,99	78,7	0,37	1,17	
pc= 55/131	-25	-13	115,9	396	99,7	1,31	4,46	1,12	88,7	0,45	1,51	
return gas temp	-23	-10	126,3	431	108,7	1,37	4,67	1,18	92,5	0,48	1,65	
RGT= 32/90	-20	-4	148,8	508	128,1	1,49	5,08	1,28	100,1	0,52	1,94	
liquid temp	-15	5	188,2	643	161,9	1,68	5,73	1,44	112,2	0,57	2,46	
Tliq= 55/131	-10	14	233,2	797	200,7	1,87	6,39	1,61	124,6	0,62	3,06	

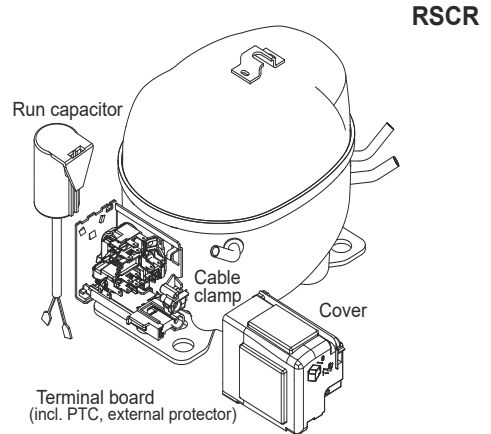
Model

Designation **HXK87AT** **220-240V/50Hz** Conf. 3 Sales code: **16408900**

Configuration

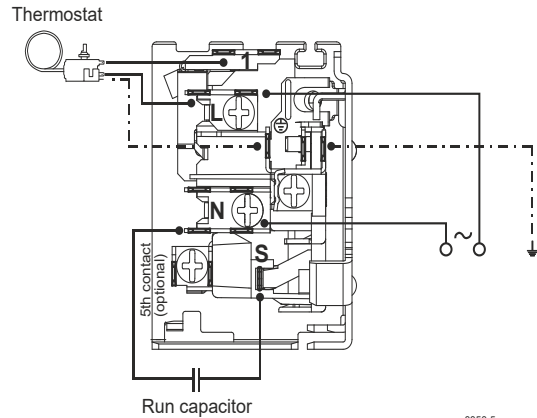
Motorconfiguration RSCR
 Power supply (nominal) 220-240V/50Hz 1~
 Refrigerant R600a
 Application LBP
 Voltage range 170-264V
 Starting torque LST
 Approvals VDE

Electrical accessories / wiring diagram

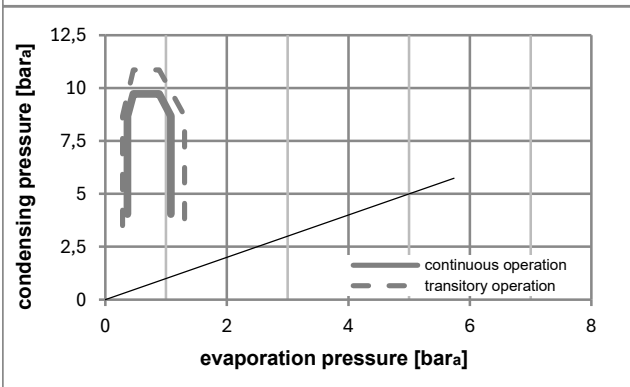
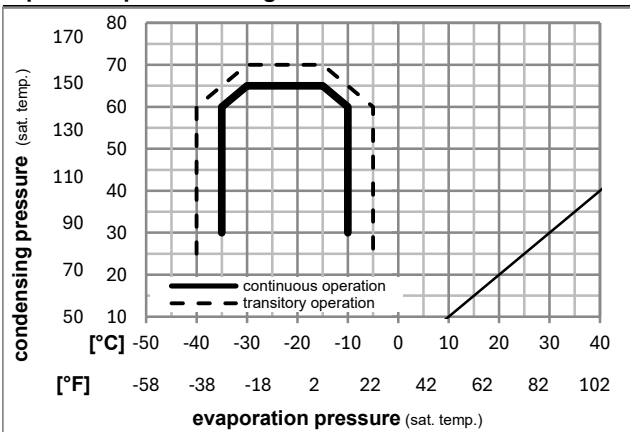


Ambient/ machine room temperatures minimum /maximum

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) 16403700
- . 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

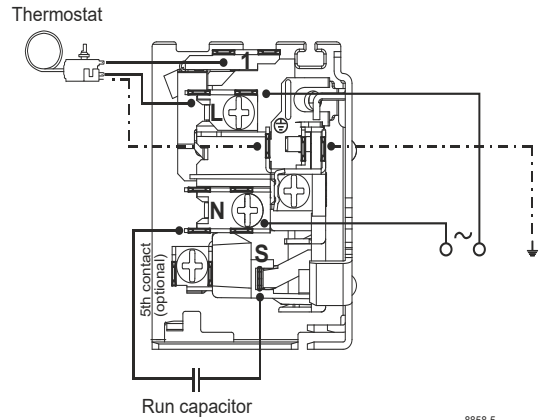
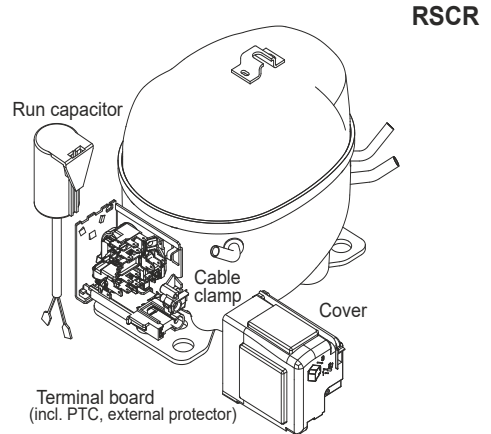
Model

Designation **HXK87AT** **208-230V/60Hz** Conf. 4 Sales code: **16408900**

Configuration

Motorconfiguration RSCR
 Power supply (nominal) 208-230V/60Hz 1~
 Refrigerant R600a
 Application LBP
 Voltage range 198-253V
 Starting torque LST
 Approvals VDE

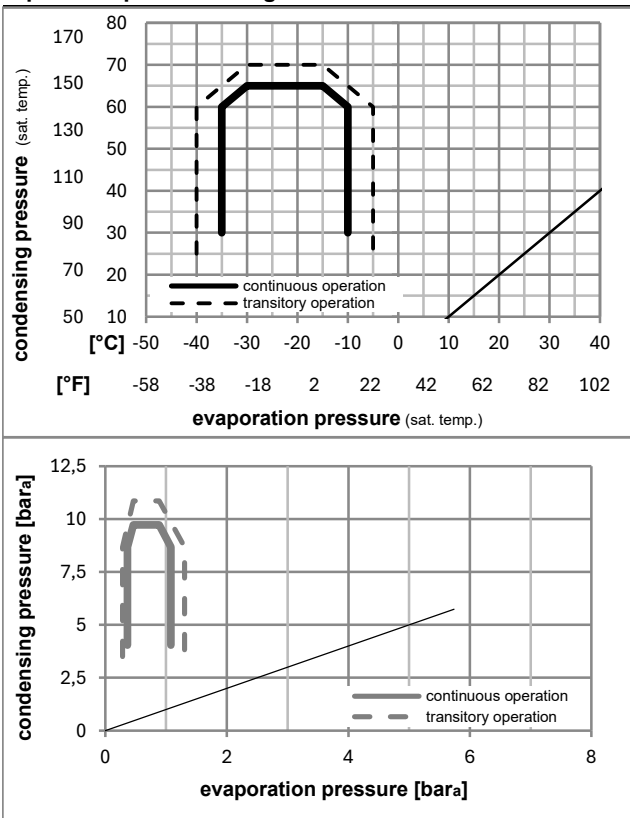
Electrical accessories / wiring diagram



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) 16403700
- . 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	HXK87AT	208-230V/60Hz	Conf. 4	Sales code:	16408900
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Optimization + standard conditions

R600a, 220V/60Hz, RSCR, static, VDE

	Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			COP	EER	Power consumption			ASHRAE LBP	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]			P1	I	ṁ		
[°C]	-23	54	32	32	183,6	627	158,0	1,77	6,04	1,52	103,9	0,54	1,97	
[°F]	-10	130	90	90										
	-25	55	32	55	138,5	473	119,2	1,38	4,73	1,19	100,0	0,51	1,81	cecomaf LBP
	-13	131	90	131										
	-35	40	20	40	106,9	365	92,0	1,38	4,70	1,18	77,7	0,36	1,30	EN12900 LBP
	-31	104	68	104										
	-23	49	4,4	49	147,8	505	127,2	1,46	5,00	1,26	101,0	0,53	2,16	ARI540 LBP
	-10	120	40	120										
	-23	41	32	32	190,7	651	164,1	1,99	6,78	1,71	96,0	0,51	2,05	AHAM LBP
	-10	105	90	90										
	-35	45	32	45	104,5	357	90,0	1,32	4,51	1,14	79,2	0,35	1,24	opt
	-31	113	90	113										

Performance tables

R600a, 220V/60Hz, RSCR, static, VDE

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]		[Btu/Wh]	[kcal/Wh]			
[°C / °F]	-35	-31	104,5	357	90,0	1,32	4,51	1,14	79,2	0,35	1,24
cond. pressure	-30	-22	124,9	426	107,5	1,45	4,95	1,25	86,2	0,43	1,48
pc= 45/113	-25	-13	157,0	536	135,1	1,65	5,63	1,42	95,3	0,50	1,87
return gas temp.	-23	-10	170,4	582	146,6	1,72	5,89	1,48	98,8	0,52	2,03
RGT= 32/90	-20	-4	199,9	683	172,1	1,89	6,44	1,62	106,0	0,55	2,38
liquid temp	-15	5	253,0	864	217,7	2,15	7,34	1,85	117,8	0,60	3,02
Tliq= 45/113	-10	14	315,2	1076	271,2	2,42	8,28	2,09	130,0	0,65	3,77
[°C / °F]	-35	-31	87,0	297	74,9	1,10	3,75	0,94	79,3	0,30	1,13
cond. pressure	-30	-22	108,0	369	93,0	1,22	4,16	1,05	88,7	0,42	1,41
pc= 55/131	-25	-13	138,5	473	119,2	1,38	4,73	1,19	100,0	0,51	1,81
return gas temp	-23	-10	150,9	515	129,8	1,45	4,94	1,25	104,2	0,54	1,97
RGT= 32/90	-20	-4	177,6	606	152,8	1,57	5,38	1,35	112,8	0,58	2,32
liquid temp	-15	5	224,4	766	193,1	1,77	6,06	1,53	126,5	0,64	2,94
Tliq= 55/131	-10	14	278,2	950	239,4	1,98	6,76	1,70	140,5	0,70	3,65



K-Series Compressors

GTK, HKK, HMK, HTK, HXK, HZK

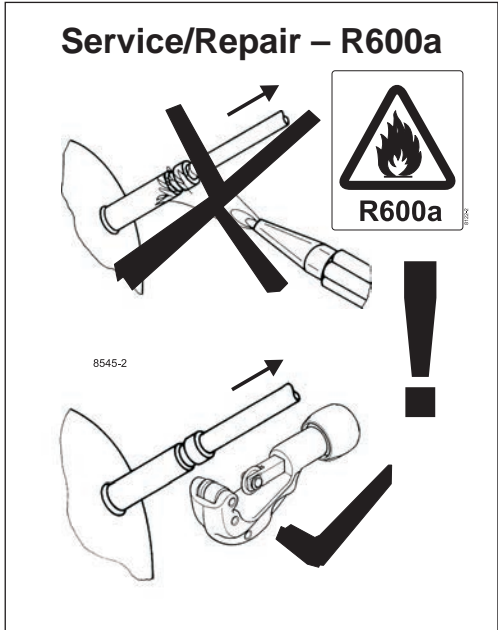
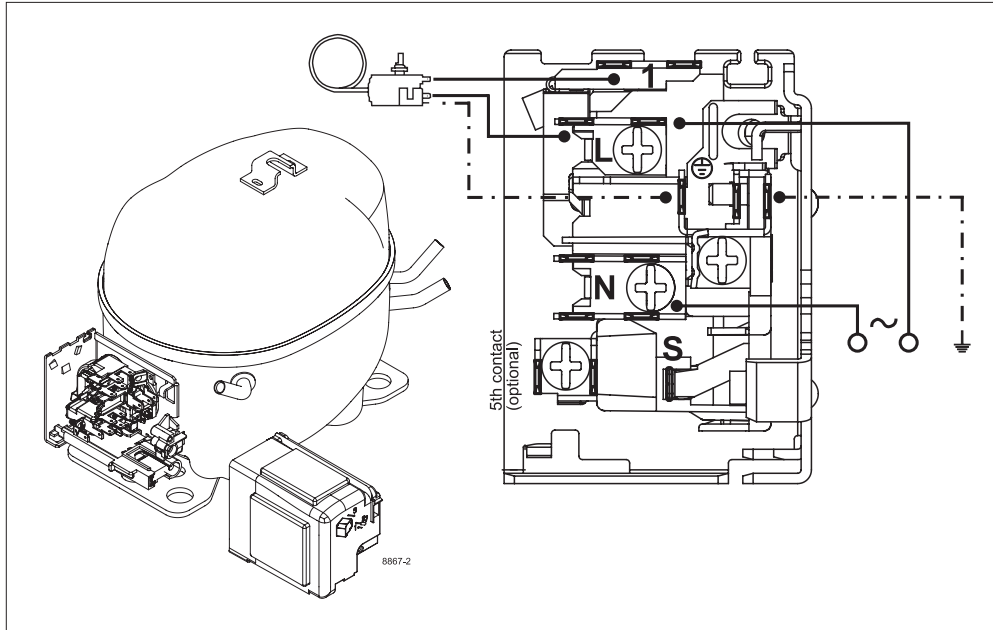


Service/Repair – R600a



K-Series Compressors

GTK, HKK, HMK, HTK, HXK, HZK



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