

Model

Designation	HXK12AT	200-240V/50Hz ~ 220-240V/60Hz ~	Sales code:	CDO00219
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	11,12cm³ / 0,68cu.in
Oil quantity	162cm³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1560cm³ / 52,7fl.oz		
Weight	8,9kg / 19,6lbs		
Motor protection	external		
Winding resistance main	12,4Ω (at 25°C)		
Winding resistance aux	15,3Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	120°C / 248°F		



General - Configurations with HXK12AT

	Conf. 1	Conf. 2	Conf. 3
Motorconfiguration	RSCR	RSIR	RSCR
Power supply (nominal)	200-240V/50Hz	200-240V/50Hz	208-230V/60Hz
Number of phases	1	1	1
Voltage range	170-264V	170-264V	198-253V
Approvals			0
Starting torque	LST	LST	LST
Note	- / -		

Applications with HXK12AT

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

Electrical data - Configurations with HXK12AT

	Conf. 1	Conf. 2	Conf. 3
Starting device type	PTC	PTC	PTC
Run capacitor	4μF	-/-	4μF
Start capacitor	-/-	-/-	-/-
LRA (locked rotor amps / 4s)	8,2A	8,2A	
RLA (rated load amps / 1s)			
Cut in current	16,4A	16,4A	
IP class	21	21	21

Model

Designation

HXK12AT

200-240V/50Hz ~ 220-240V/60Hz ~

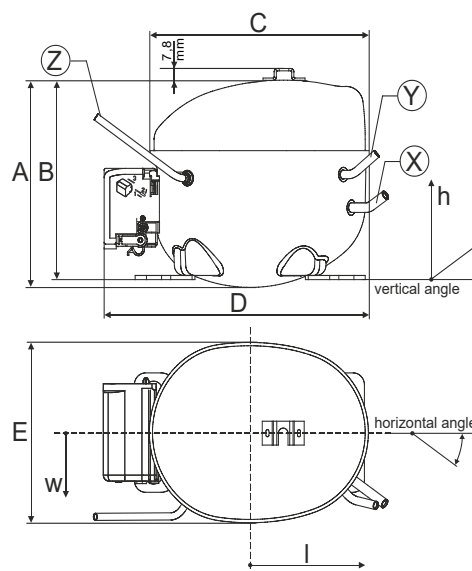
Sales code:

CDO00219

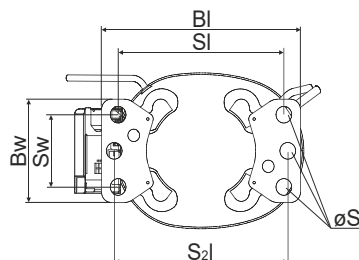
Compressor dimensions

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 X	Discharge Y	Process 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° 35°	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

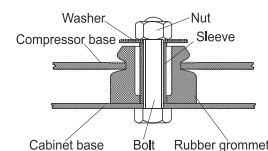


Compressor fixation

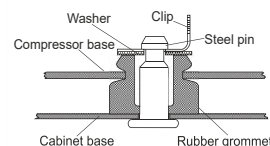


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
S2l	178	7
ØS	ø 16	ø 0.63

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

Various options of housing are possible (dip-tray fixture) - please contact SECOP-Sales.

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

Model

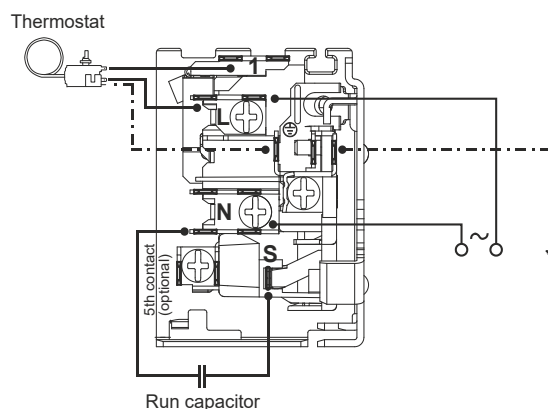
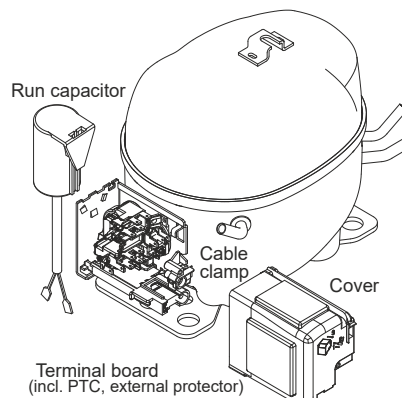
Designation	HXK12AT	200-240V/50Hz	Conf. 1	Sales code:	CDO00219
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Configuration

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

Electrical accessories / wiring diagram

RSCR



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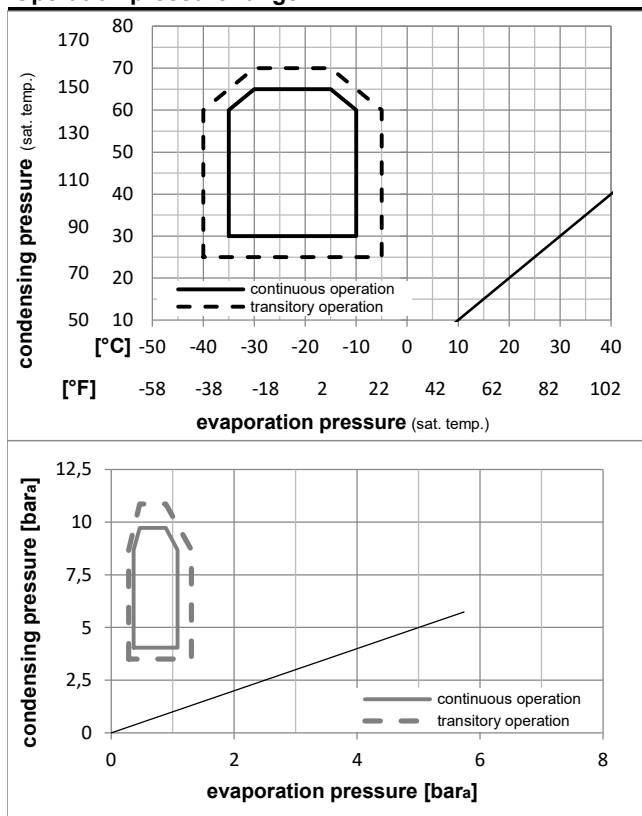
Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)

T ambient	LBP	MBP	HBP
32°C / 90°F	static	n/a	n/a
38°C / 100°F	static	n/a	n/a
43°C / 110°F	static	n/a	n/a

Operation pressure range



Components

terminal board (PTC,4.8mm,K100)	ZC F9
run capacitor (4μF, 4.8/6,3mm)	cap. 4μF
motor protector BDG AE 11 BJ x	AE11BJX
cover + clamp + screws (Nr. 4ZN)	16168000

Alternative components

terminal board (PTC,6.3mm,K100)	DC F9
run capacitor (4μF, 4.8/6,3mm)	cap. 4μF
motor protector BDG AE 11 BJ x	AE11BJX
cover + clamp + screws (Nr. 4ZN)	16168000

Model

Designation	HXK12AT	200-240V/50Hz	Conf. 1	Sales code:	CDO00219
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Optimization + standard conditions

200V/50Hz, RSCR, static,

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]	[°C]									[W]	[A]	[kg/h]		
-23,3	54,4	32,2	32,2	200,1	683	172,2	1,73	5,92	1,49	115,5	0,60	2,15	ASHRAE	LBP
[°F]	-10	130	90											
-25	55	32	55	151,3	517	130,2	1,35	4,60	1,16	112,3	0,59	1,97	cecomaf	LBP
[°F]	-13	131	89,6											
-35	40	20	40	114,8	392	98,8	1,25	4,26	1,07	92,1	0,53	1,40	EN12900	LBP
[°F]	-31	104	68											
-23,3	48,9	4,44	48,9	161,7	552	139,2	1,46	4,98	1,25	110,9	0,59	2,36	ARI540	LBP
[°F]	-10	120	40											
-23,3	40,6	32,2	32,2	210,1	717	180,8	2,00	6,84	1,72	104,8	0,57	2,25	AHAM	LBP
[°F]	-10	105	90											
-35	45	32	45	111,6	381	96,1	1,18	4,02	1,01	94,8	0,53	1,33	opt	
[°F]	-31	113	89,6											

Performance tables

200V/50Hz, RSCR, static,

	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	28,0	96	24,1	0,08		0,28	0,07		348,2	-0,08	0,22
cond. pressure	-30	-22	68,9	235	59,3	0,19		0,64	0,16		369,3	-0,09	0,55
pc= -25/-13	-25	-13	130,6	446	112,4	0,33		1,13	0,29		393,1	-0,11	1,05
return gas temp.	-23,3	-10	156,3	534	134,5	0,39		1,33	0,33		401,7	-0,11	1,25
RGT= 20/68	-20	-4	213,1	728	183,4	0,51		1,74	0,44		419,2	-0,12	1,71
liquid temp	-15	5	316,4	1080	272,3	0,71		2,42	0,61		447,2	-0,14	2,54
Tliq= -25/-13	-10	14	440,5	1504	379,1	0,92		3,15	0,79		476,8	-0,16	3,54
[°C / °F]	-35	-31	-36,3	-124	-31,3	-0,07		-0,26	-0,06		484,7	-0,36	-0,28
cond. pressure	-30	-22	7,4	25	6,4	0,01		0,05	0,01		512,1	-0,38	0,06
pc= -35/-31	-25	-13	73,5	251	63,3	0,14		0,46	0,12		541,9	-0,40	0,56
return gas temp	-23,3	-10	101,1	345	87,0	0,18		0,62	0,16		552,5	-0,41	0,77
RGT= 20/68	-20	-4	162,0	553	139,4	0,28		0,96	0,24		573,9	-0,43	1,24
liquid temp	-15	5	272,8	932	234,8	0,45		1,53	0,39		607,6	-0,46	2,09
Tliq= -35/-31	-10	14	405,9	1386	349,3	0,63		2,16	0,54		642,8	-0,50	3,12

Model

Designation

HXK12AT

200-240V/50Hz

Conf. 2

Sales code:

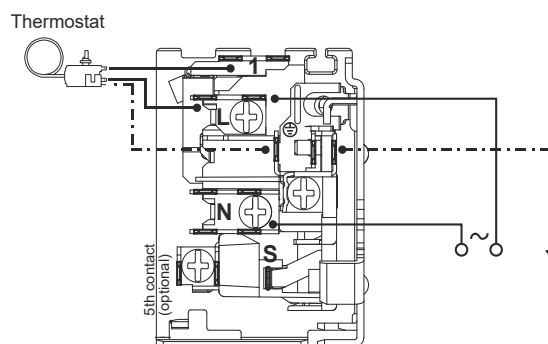
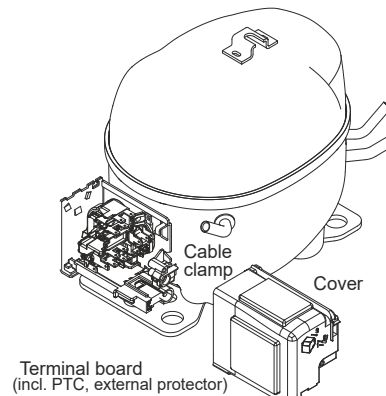
CDO00219

Configuration

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

Electrical accessories / wiring diagram

RSIR



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Ambient temperatures / system cooling

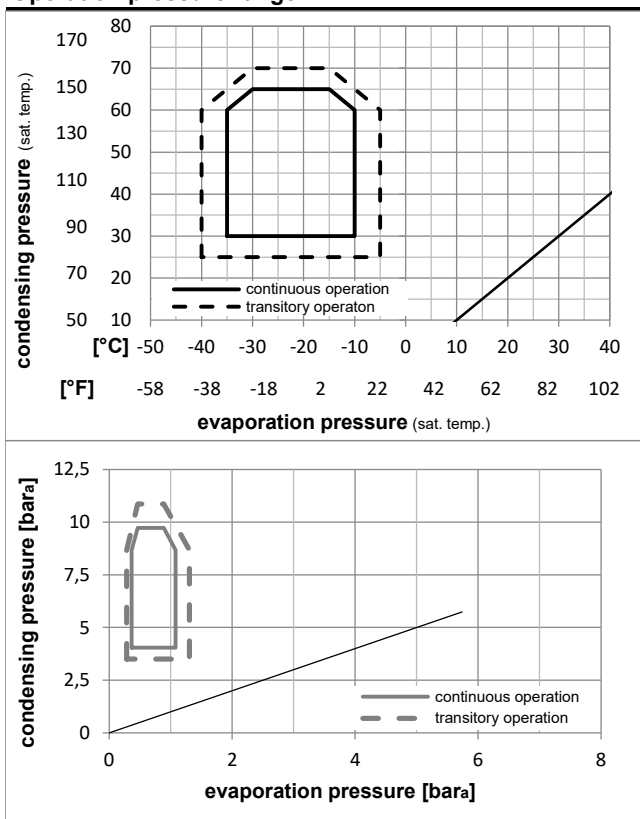
Ambient temperature min.: 10°C / 50°F

Ambient temperature max.: 43°C / 110°F

System cooling (n/a: outside limits)

T ambient	LBP	MBP	HBP
32°C / 90°F	static	n/a	n/a
38°C / 100°F	static	n/a	n/a
43°C / 110°F	static	n/a	n/a

Operation pressure range



Components

terminal board (PTC,4.8mm,K100)	ZC F9
motor protector BDG AE 11 BJ x	AE11BJX
cover + clamp + screws (Nr. 4ZN)	16168000

Alternative components

terminal board (PTC,6.3mm,K100)	DC F9
motor protector BDG AE 11 BJ x	AE11BJX
cover + clamp + screws (Nr. 4ZN)	16168000

Model

Designation	HXK12AT	200-240V/50Hz	Conf. 2	Sales code:	CDO00219
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Optimization + standard conditions

200V/50Hz, RSIR, static,

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]	[°C]									[W]	[A]	[kg/h]		
-23,3	54,4	32,2	32,2	198,1	677	170,5	1,67	5,70	1,44	118,7	0,63	2,13	ASHRAE	LBP
[°F]	-10	130	90											
-25	55	32	55	149,8	511	128,9	1,30	4,43	1,12	115,4	0,61	1,95	cecomaf	LBP
[°F]	-13	131	89,6	131										
-35	40	20	40	113,6	388	97,8	1,20	4,10	1,03	94,6	0,55	1,38	EN12900	LBP
[°F]	-31	104	68	104										
-23,3	48,9	4,44	48,9	160,1	547	137,8	1,40	4,80	1,21	114,0	0,61	2,34	ARI540	LBP
[°F]	-10	120	40	120										
-23,3	40,6	32,2	32,2	208,0	710	179,0	1,93	6,59	1,66	107,7	0,60	2,23	AHAM	LBP
[°F]	-10	105	90	90										
-35	45	32	45	110,5	377	95,1	1,13	3,87	0,98	97,5	0,55	1,31	opt	
[°F]	-31	113	89,6	113										

Performance tables

200V/50Hz, RSIR, static,

	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	27,8	95	23,9	0,08	0,26	0,07	357,9	-0,08	0,22
cond. pressure	-30	-22	68,2	233	58,7	0,18	0,61	0,15	379,5	-0,10	0,55
pc= -25/-13	-25	-13	129,3	441	111,2	0,32	1,09	0,28	404,0	-0,11	1,04
return gas temp.	-23,3	-10	154,7	528	133,2	0,37	1,28	0,32	412,8	-0,12	1,24
RGT= 20/68	-20	-4	210,9	720	181,5	0,49	1,67	0,42	430,8	-0,13	1,69
liquid temp	-15	5	313,2	1070	269,6	0,68	2,33	0,59	459,6	-0,14	2,52
Tliq= -25/-13	-10	14	436,1	1489	375,3	0,89	3,04	0,77	490,1	-0,17	3,51
[°C / °F]	-35	-31	-36,0	-123	-31,0	-0,07	-0,25	-0,06	498,2	-0,38	-0,27
cond. pressure	-30	-22	7,4	25	6,3	0,01	0,05	0,01	526,2	-0,40	0,06
pc= -35/-31	-25	-13	72,8	249	62,7	0,13	0,45	0,11	556,9	-0,42	0,56
return gas temp	-23,3	-10	100,1	342	86,2	0,18	0,60	0,15	567,9	-0,43	0,77
RGT= 20/68	-20	-4	160,4	548	138,0	0,27	0,93	0,23	589,8	-0,45	1,23
liquid temp	-15	5	270,1	922	232,4	0,43	1,48	0,37	624,5	-0,48	2,07
Tliq= -35/-31	-10	14	401,9	1373	345,9	0,61	2,08	0,52	660,6	-0,52	3,09

Model

Designation

HXK12AT

208-230V/60Hz

Conf. 3

Sales code:

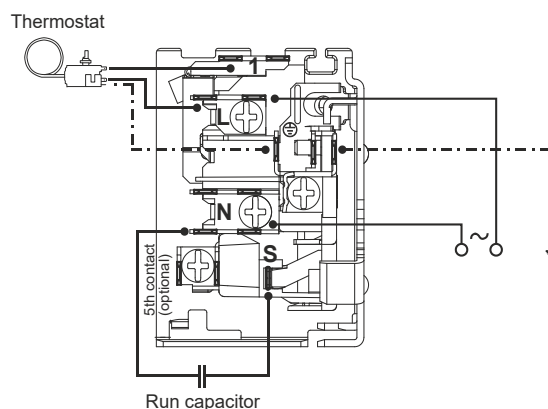
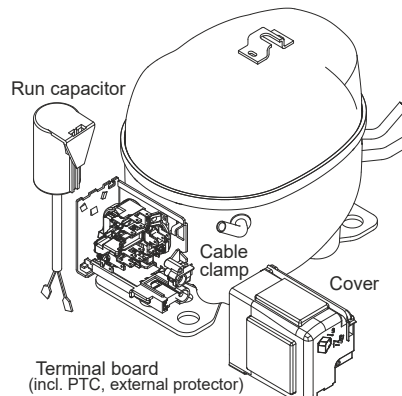
CDO00219

Configuration

Motorconfiguration	RSCR
Power supply (nominal)	208-230V/60Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	198-253V
Starting torque	LST
Approvals	0

Electrical accessories / wiring diagram

RSCR



Ambient temperatures / system cooling

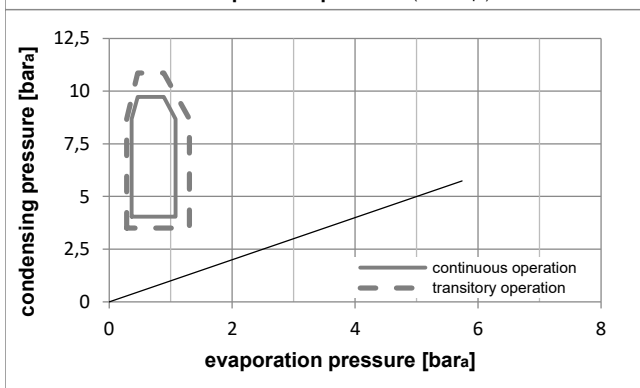
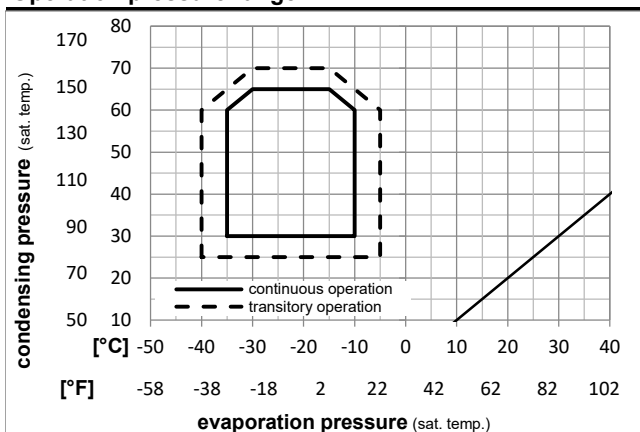
Ambient temperature min.: 10°C / 50°F

Ambient temperature max.: 43°C / 110°F

System cooling (n/a: outside limits)

T ambient	LBP	MBP	HBP
32°C / 90°F	static	n/a	n/a
38°C / 100°F	static	n/a	n/a
43°C / 110°F	static	n/a	n/a

Operation pressure range



Components

terminal board (PTC,4.8mm,K100)	ZC F9
run capacitor (4μF, 4.8/6,3mm)	cap. 4μF
motor protector BDG AE 11 BJ x	AE11BJX
cover + clamp + screws (Nr. 4ZN)	16168000

Alternative components

terminal board (PTC,6.3mm,K100)	DC F9
run capacitor (4μF, 4.8/6,3mm)	cap. 4μF
motor protector BDG AE 11 BJ x	AE11BJX
cover + clamp + screws (Nr. 4ZN)	16168000

Model

Designation	HXK12AT	208-230V/60Hz	Conf. 3	Sales code:	CDO00219
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Optimization + standard conditions

220V/60Hz, RSCR, static, 0

	Evaporating pressure (saturation temperature)										Power consumption			
	Condensing pressure (saturation temperature)										Current consumption			
	Return gas temp.										Ref. mass flow			
	Liquid temp.													
	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]	-23,3	54,4	32,2	32,2	235,6	805	202,8	1,75	5,97	1,50	134,8	0,71	2,53	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	178,2	608	153,3	1,36	4,64	1,17	131,1	0,70	2,32	cecomaf LBP
[°F]	-13	131	89,6	131										
[°C]	-35	40	20	40	134,1	458	115,4	1,25	4,27	1,08	107,2	0,62	1,63	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23,3	48,9	4,44	48,9	189,8	648	163,3	1,47	5,01	1,26	129,4	0,70	2,77	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23,3	40,6	32,2	32,2	245,3	838	211,1	2,01	6,85	1,73	122,2	0,68	2,63	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	131,0	447	112,7	1,19	4,05	1,02	110,5	0,63	1,56	opt
[°F]	-31	113	89,6	113										