Model
HXK12AT

Sales code:
16513500

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**8.90 kg / 19.62lbs**
Displacement	**11.10 cm3 / 0.68cu.in**
Compressors on pallet	**100**

General – Configurations With HXK12AT

–	**Conf. 1**	**Conf. 2**
Motor configuration	RSCR	RSCR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1
Voltage range	170-264 V	198-253 V
Approvals	VDE	VDE
Starting torque	LST	LST
Refrigerant	R600a	R600a
Application	LBP	LBP

Application Notes

- Electrical equipment is included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor
- Housing with dip-tray fixture (omega bracket).

Model
HXK12AT

Sales code:
16513500

Compressor Design

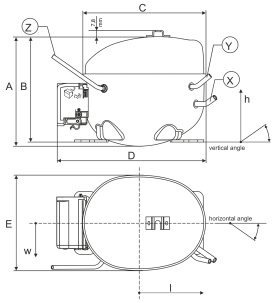
Oil type	**Mineral**	Winding resistance main	**12.4 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**15.3 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,560 cm3 / 52.75fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

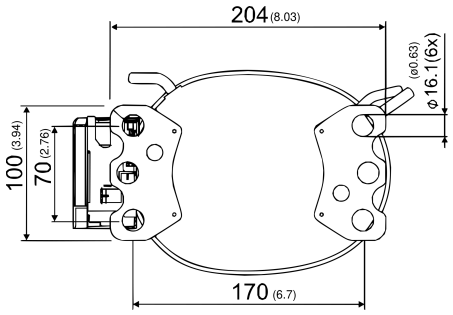
A Height	**174mm / 6.85in**
B Height	**167mm / 6.57in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



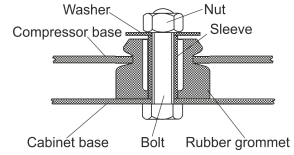
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70 / -5.51/5.35/2.76in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	75 / 2.95in

Mounting Accessories

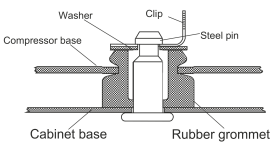


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
'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

Model
HXK12AT Configuration 1

Sales code:
16513500

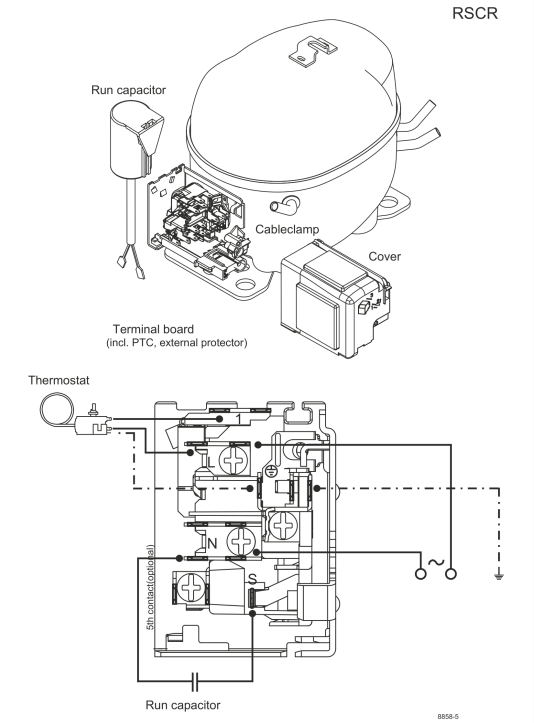
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**170-264 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**PTC**
Run capacitor	**4 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**7.3 A**
RLA (rated load amps / 1s/ U(N))	**0.6 A**
Cut in current (U(N))	**11.1 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
static

Electrical Accessories / Wiring Diagram

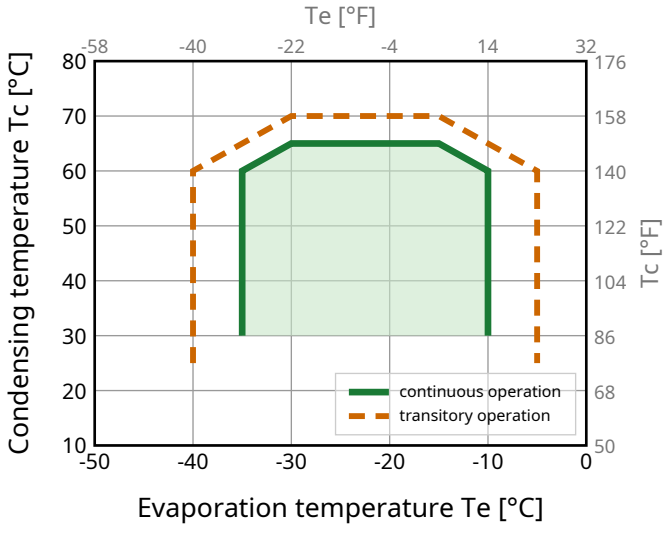


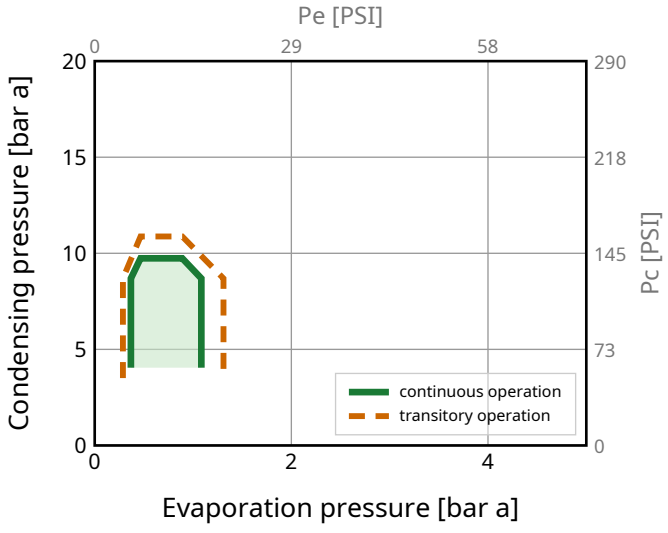
View full size

Components (already pre-assembled)
. terminal board (PTC, 4.8mm) 16425900
. run capacitor (4µF, 4.8mm) 11261700
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
b, d 100x cover + clamp + screws (5VA) 103N2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model
HXK12AT Configuration 1

Sales code:
16513500

Standard Conditions

R600a, 230 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**200**	682	172	**1.71**	5.84	117	0.63	2.15	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**151**	516	130	**1.33**	4.54	114	0.61	1.97	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**115**	392	99	**1.24**	4.21	93	0.55	1.40	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**162**	553	139	**1.45**	4.94	112	0.61	2.37	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**210**	717	181	**1.98**	6.77	106	0.60	2.26	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**112**	381	96	**1.17**	3.98	96	0.55	1.33	**opt LBP**

Performance Tables

R600a, 230 V/50 Hz, RSCR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**112**	381	96	**1.17**	3.98	96	0.55	1.33
-30	-22	**137**	467	118	**1.39**	4.73	99	0.56	1.63
-25	-13	**173**	590	149	**1.63**	5.58	106	0.59	2.06
-20	-4	**219**	749	189	**1.88**	6.42	117	0.64	2.62
-15	5	**277**	944	238	**2.12**	7.22	131	0.70	3.31
-10	14	**345**	1176	296	**2.33**	7.94	148	0.78	4.13

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	**95**	324	82	**0.94**	3.20	101	0.57	1.24
-30	-22	**119**	405	102	**1.13**	3.85	105	0.58	1.54
-25	-13	**151**	516	130	**1.33**	4.54	114	0.61	1.97
-20	-4	**193**	659	166	**1.53**	5.23	126	0.67	2.52
-15	5	**244**	833	210	**1.72**	5.87	142	0.74	3.19
-10	14	**304**	1039	262	**1.89**	6.45	161	0.82	3.99

Model
HXK12AT Configuration 2

Sales code:
16513500

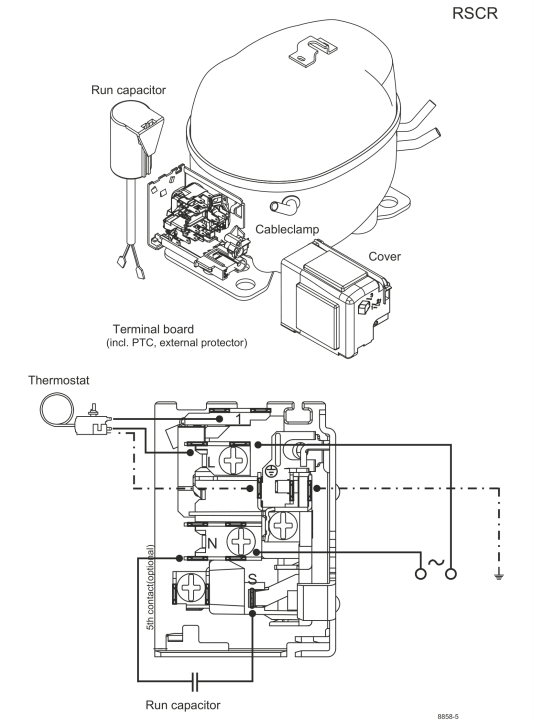
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**198-253 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**PTC**
Run capacitor	**4 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**7.3 A**
RLA (rated load amps / 1s/ U(N))	**0.6 A**
Cut in current (U(N))	**11.1 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
static

Electrical Accessories / Wiring Diagram

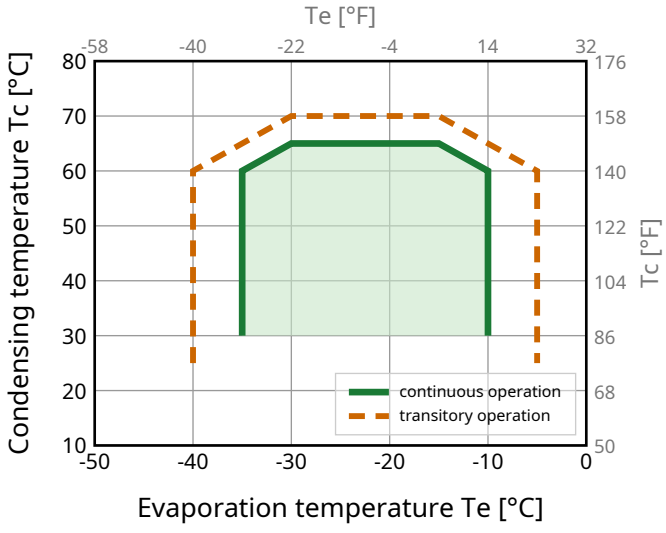


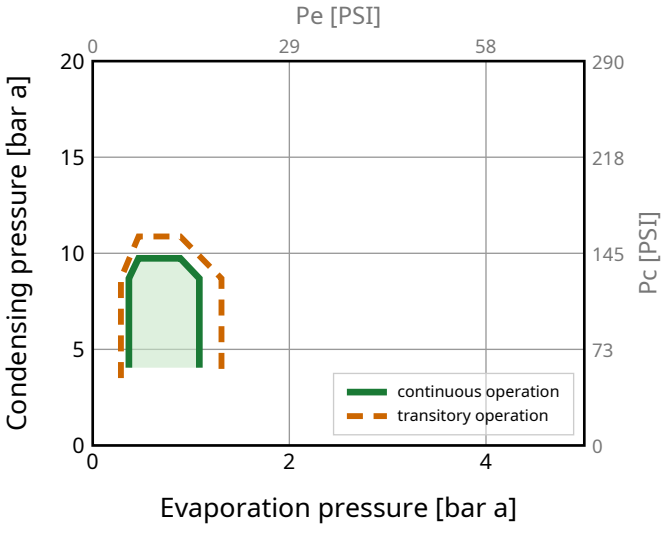
View full size

Components (already pre-assembled)
. terminal board (PTC, 4.8mm) 16425900
. run capacitor (4µF, 4.8mm) 11261700
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
b, d 100x cover + clamp + screws (5VA) 103N2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model
HXK12AT Configuration 2

Sales code:
16513500

Standard Conditions

R600a, 220 V/60 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**236**	804	203	**1.77**	6.03	133	0.72	2.53	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**178**	608	153	**1.38**	4.69	130	0.71	2.32	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**134**	458	115	**1.26**	4.32	106	0.63	1.63	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**190**	650	164	**1.49**	5.08	128	0.71	2.78	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**245**	837	211	**2.03**	6.93	121	0.69	2.64	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**131**	447	113	**1.20**	4.09	109	0.64	1.55	**opt LBP**

Performance Tables

R600a, 220 V/60 Hz, RSCR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**131**	447	113	**1.20**	4.09	109	0.64	1.55
-30	-22	**160**	547	138	**1.42**	4.86	113	0.65	1.91
-25	-13	**202**	690	174	**1.68**	5.72	121	0.68	2.41
-20	-4	**257**	876	221	**1.93**	6.58	133	0.74	3.06
-15	5	**324**	1104	278	**2.17**	7.40	149	0.81	3.87
-10	14	**403**	1376	347	**2.38**	8.14	169	0.89	4.83

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	**112**	383	97	**0.97**	3.32	115	0.66	1.46
-30	-22	**140**	477	120	**1.17**	3.97	120	0.67	1.82
-25	-13	**178**	608	153	**1.38**	4.69	130	0.71	2.32
-20	-4	**227**	776	196	**1.58**	5.40	144	0.77	2.97
-15	5	**288**	981	247	**1.78**	6.06	162	0.85	3.76
-10	14	**359**	1224	308	**1.95**	6.65	184	0.95	4.70