Model
HXK80AT

Sales code:
16408600

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**8.10 kg / 17.86lbs**
Displacement	**8.10 cm3 / 0.49cu.in**
Compressors on pallet	**100**

General – Configurations With HXK80AT

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	RSCR	RSIR	RSCR	RSCR
Power supply (nominal)	200-240 V/50 Hz	200-240 V/50 Hz	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1
Voltage range	170-264 V	170-264 V	170-264 V	198-253 V
Approvals	VDE	VDE	VDE	VDE
Starting torque	LST	LST	LST	LST
Refrigerant	R600a	R600a	R600a	R600a
Application	LBP	LBP	LBP	LBP

Application Notes

- Various options of connectors are possible - please contact SECOP-Sales.
- 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
HXK80AT

Sales code:
16408600

Compressor Design

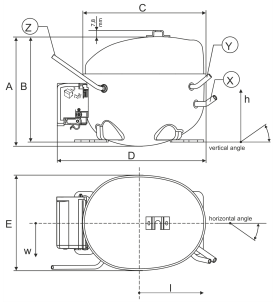
Oil type	**Mineral**	Winding resistance main	**24.3 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**13.8 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,620 cm3 / 54.78fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

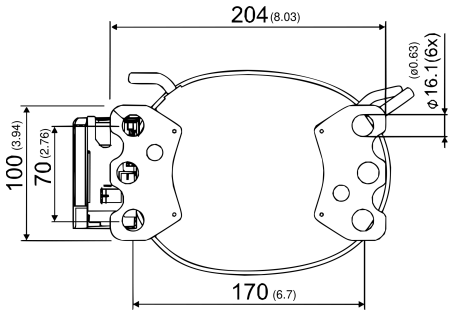
A Height	**174mm / 6.85in**
B Height	**167mm / 6.57in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



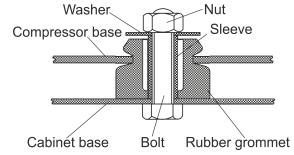
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

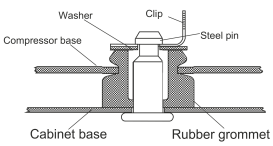


Dimensions in mm [in]

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
HXK80AT Configuration 1

Sales code:
16408600

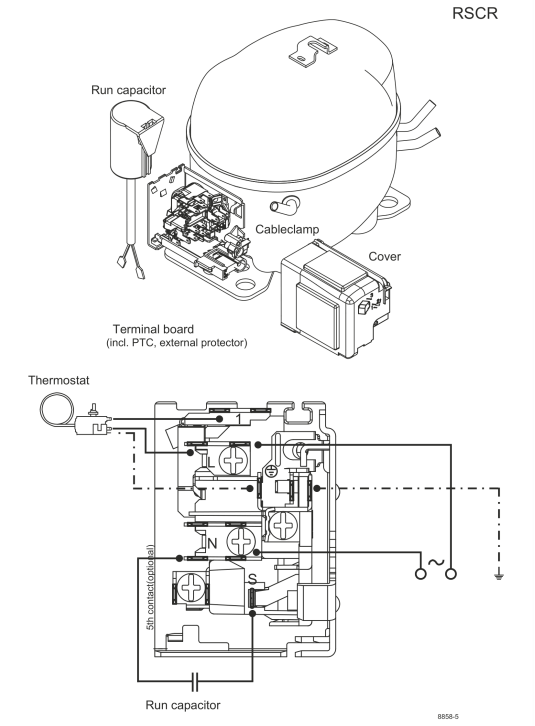
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**200-240 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	**-/-**
RLA (rated load amps / 1s/ U(N))	**-/-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



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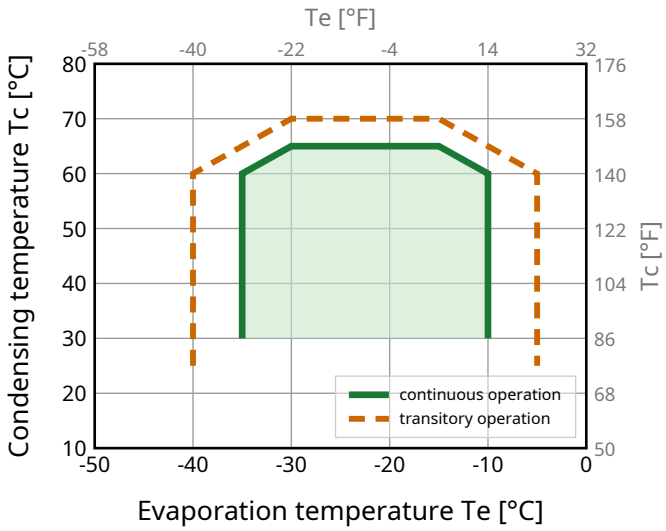
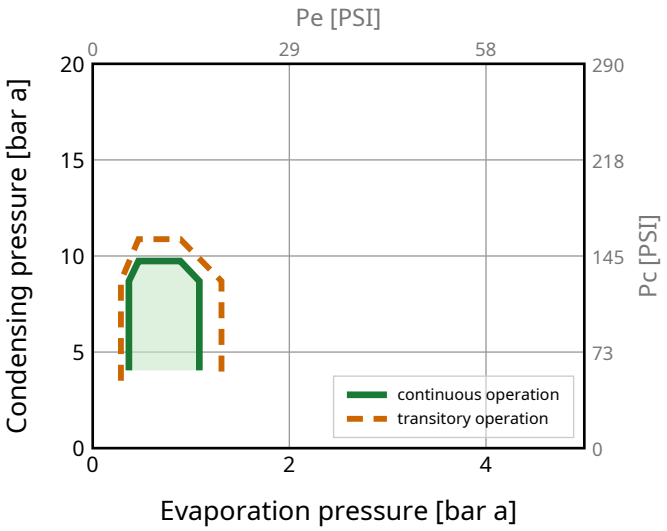
Components
. terminal board (PTC, 6.3mm) 16403700
. run capacitor (4µF, 6.3mm) 15186801
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HXK80AT Configuration 1

Sales code:
16408600

Standard Conditions

R600a, 200 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	**140**	477	120	**1.75**	5.96	80	0.38	1.50	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**105**	358	90	**1.36**	4.66	77	0.37	1.37	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**80**	273	69	**1.42**	4.84	56	0.29	0.97	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**114**	389	98	**1.46**	5.00	78	0.38	1.66	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**149**	508	128	**2.00**	6.83	74	0.36	1.60	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**77**	263	66	**1.35**	4.60	57	0.28	0.92	**opt LBP**

Performance Tables

R600a, 200 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	**77**	263	66	**1.35**	4.60	57	0.28	0.92
-30	-22	**96**	328	83	**1.46**	4.99	66	0.32	1.14
-25	-13	**122**	416	105	**1.65**	5.64	74	0.35	1.45
-20	-4	**154**	526	133	**1.90**	6.47	81	0.39	1.84
-15	5	**194**	663	167	**2.17**	7.41	90	0.43	2.32
-10	14	**242**	827	208	**2.46**	8.40	98	0.48	2.90

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

-35	-31	**56**	193	49	**1.01**	3.45	56	0.27	0.73
-30	-22	**79**	269	68	**1.18**	4.03	67	0.32	1.02
-25	-13	**105**	358	90	**1.36**	4.66	77	0.37	1.37
-20	-4	**135**	462	116	**1.56**	5.33	87	0.42	1.77
-15	5	**171**	582	147	**1.77**	6.03	96	0.47	2.23
-10	14	**211**	721	182	**1.97**	6.73	107	0.52	2.77

Model
HXK80AT Configuration 2

Sales code:
16408600

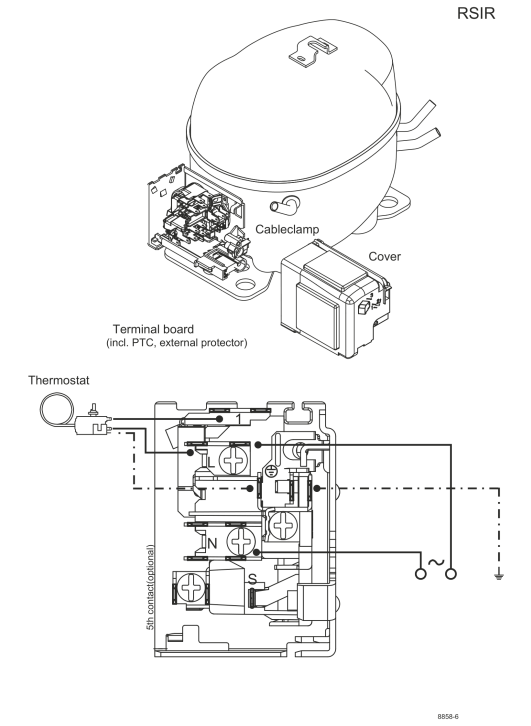
Configuration

Motor configuration	**RSIR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**170-264 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
RLA (rated load amps / 1s/ U(N))	**-/-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



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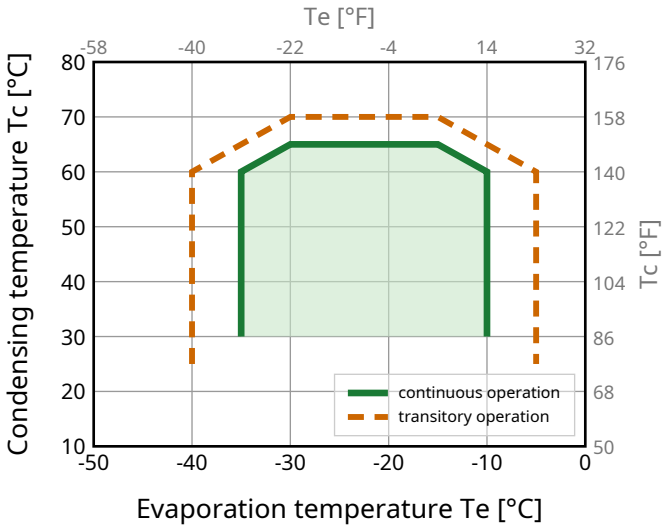
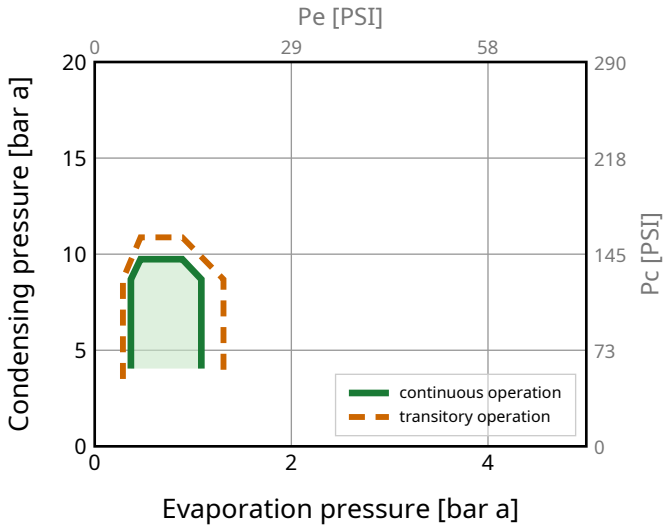
Components
. terminal board (PTC, 6.3mm) 16403700
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HXK80AT Configuration 2

Sales code:
16408600

Standard Conditions

R600a, 200 V/50 Hz, RSIR, 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	**140**	477	120	**1.67**	5.69	84	0.40	1.50	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**105**	358	90	**1.31**	4.46	80	0.38	1.37	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**80**	273	69	**1.39**	4.75	57	0.29	0.97	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**114**	389	98	**1.40**	4.78	81	0.39	1.66	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**149**	508	128	**1.93**	6.57	77	0.37	1.60	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**77**	263	66	**1.32**	4.49	58	0.29	0.92	**opt LBP**

Performance Tables

R600a, 200 V/50 Hz, RSIR, 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	**77**	263	66	**1.32**	4.49	58	0.29	0.92
-30	-22	**96**	328	83	**1.42**	4.85	68	0.33	1.14
-25	-13	**122**	416	105	**1.59**	5.43	76	0.37	1.45
-20	-4	**154**	526	133	**1.81**	6.16	85	0.41	1.84
-15	5	**194**	663	167	**2.04**	6.97	95	0.46	2.32
-10	14	**242**	827	208	**2.28**	7.78	106	0.51	2.90

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

-35	-31	**56**	193	49	**0.99**	3.38	57	0.27	0.73
-30	-22	**79**	269	68	**1.14**	3.90	69	0.33	1.02
-25	-13	**105**	358	90	**1.31**	4.46	80	0.38	1.37
-20	-4	**135**	462	116	**1.48**	5.04	92	0.44	1.77
-15	5	**171**	582	147	**1.65**	5.61	104	0.50	2.23
-10	14	**211**	721	182	**1.80**	6.15	117	0.56	2.77

Model
HXK80AT Configuration 3

Sales code:
16408600

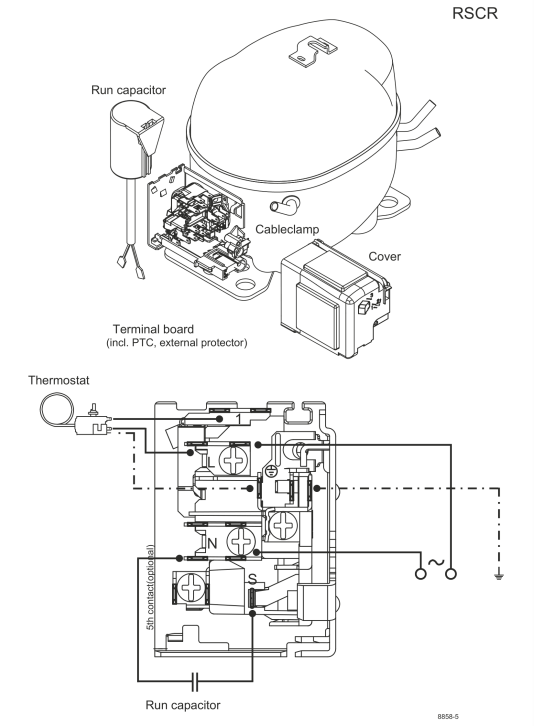
Configuration

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))	**3.6 A**
RLA (rated load amps / 1s/ U(N))	**0.7 A**
Cut in current (U(N))	**8.9 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



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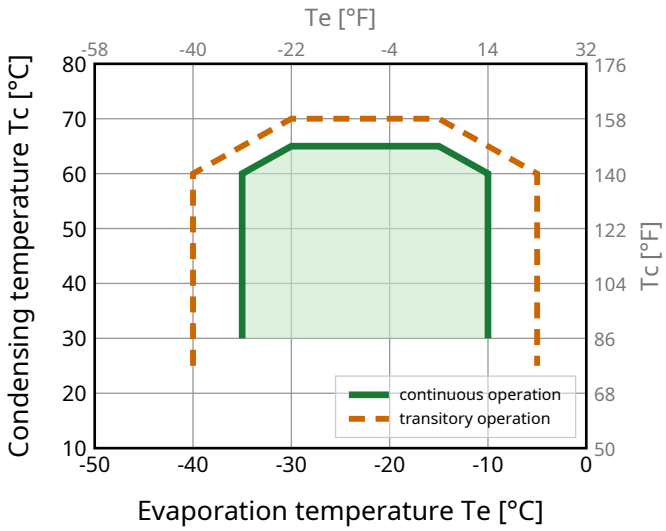
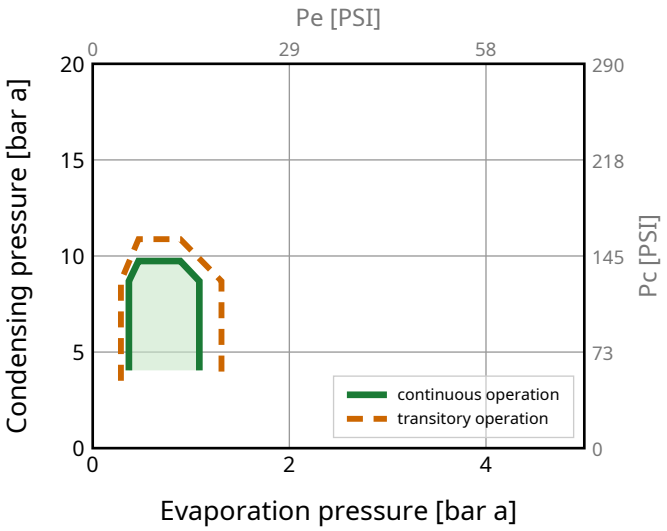
Components
. terminal board (PTC, 6.3mm) 16403700
. run capacitor (4µF, 6.3mm) 15186801
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HXK80AT Configuration 3

Sales code:
16408600

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	**140**	479	121	**1.69**	5.78	83	0.40	1.51	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**105**	359	91	**1.32**	4.51	80	0.38	1.37	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**80**	274	69	**1.38**	4.69	58	0.30	0.98	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**115**	391	99	**1.42**	4.84	81	0.39	1.67	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**150**	510	129	**1.94**	6.62	77	0.37	1.61	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**77**	264	67	**1.31**	4.46	59	0.29	0.92	**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	**77**	264	67	**1.31**	4.46	59	0.29	0.92
-30	-22	**97**	330	83	**1.42**	4.84	68	0.33	1.15
-25	-13	**122**	417	105	**1.60**	5.47	76	0.37	1.46
-20	-4	**155**	529	133	**1.84**	6.27	84	0.41	1.85
-15	5	**195**	666	168	**2.10**	7.18	93	0.45	2.33
-10	14	**243**	830	209	**2.38**	8.14	102	0.49	2.92

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

-35	-31	**57**	193	49	**0.98**	3.35	58	0.28	0.74
-30	-22	**79**	270	68	**1.14**	3.90	69	0.33	1.03
-25	-13	**105**	359	91	**1.32**	4.51	80	0.38	1.37
-20	-4	**136**	464	117	**1.51**	5.17	90	0.43	1.77
-15	5	**171**	585	147	**1.71**	5.85	100	0.49	2.24
-10	14	**212**	724	183	**1.91**	6.52	111	0.53	2.79

Model

HXK80AT Configuration 4

Sales code:

16408600

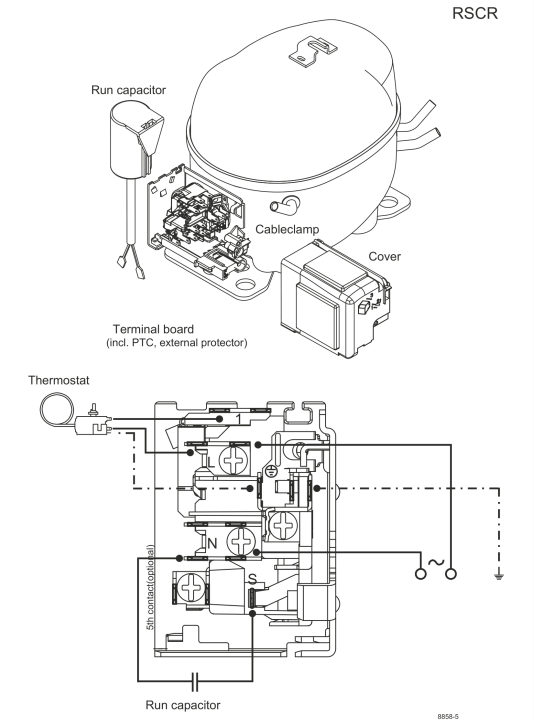
Configuration

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	**-/-**
RLA (rated load amps / 1s/ U(N))	**-/-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



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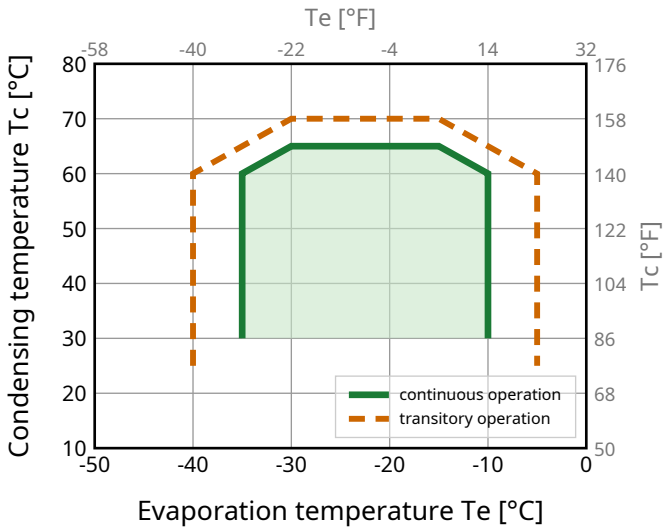
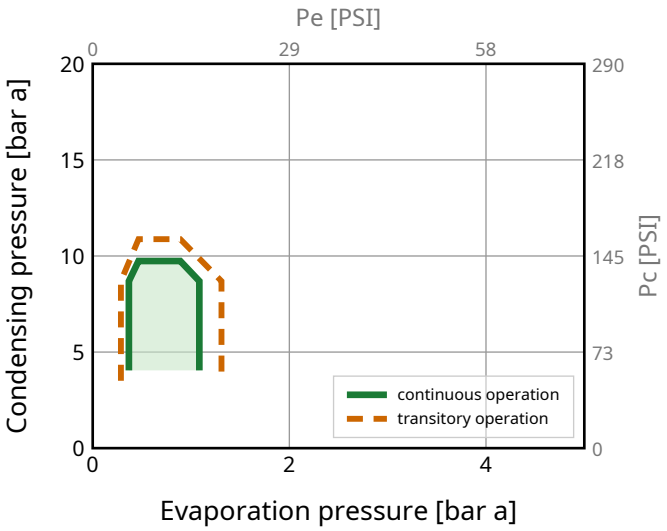
Components
. terminal board (PTC, 6.3mm) 16403700
. run capacitor (4µF, 6.3mm) 15186801
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HXK80AT Configuration 4

Sales code:
16408600

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	**168**	572	144	**1.77**	6.03	95	0.46	1.80	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**126**	430	108	**1.39**	4.74	91	0.44	1.64	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**95**	323	81	**1.44**	4.93	66	0.34	1.15	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**136**	465	117	**1.47**	5.01	93	0.45	1.99	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**177**	603	152	**1.99**	6.79	89	0.43	1.90	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**92**	314	79	**1.39**	4.73	66	0.33	1.09	**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	**92**	314	79	**1.39**	4.73	66	0.33	1.09
-30	-22	**115**	391	99	**1.49**	5.07	77	0.37	1.36
-25	-13	**145**	495	125	**1.66**	5.65	88	0.42	1.73
-20	-4	**184**	627	158	**1.87**	6.38	98	0.47	2.19
-15	5	**231**	790	199	**2.11**	7.19	110	0.53	2.77
-10	14	**289**	985	248	**2.35**	8.01	123	0.59	3.46

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

-35	-31	**69**	234	59	**1.06**	3.61	65	0.31	0.89
-30	-22	**95**	324	82	**1.22**	4.16	78	0.37	1.24
-25	-13	**126**	430	108	**1.39**	4.74	91	0.44	1.64
-20	-4	**162**	553	139	**1.56**	5.33	104	0.51	2.12
-15	5	**204**	698	176	**1.73**	5.89	118	0.58	2.68
-10	14	**253**	865	218	**1.88**	6.42	135	0.65	3.32