Model
HXK55NG

Sales code:
16512000

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**7.80 kg / 17.20lbs**
Displacement	**5.60 cm3 / 0.34cu.in**
Compressors on pallet	**100**

General – Configurations With HXK55NG

–	**Conf. 1**	**Conf. 2**
Motor configuration	eRSCR	eRSCR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1
Voltage range	198-254 V	187-253 V
Approvals	VDE	VDE
Starting torque	LST	LST
Refrigerant	R600a	R600a
Application	LBP+MBP	LBP+MBP

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

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Compressor Design

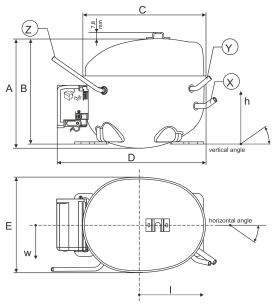
Oil type	**Mineral**	Winding resistance main	**32.7 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**29.2 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,500 cm3 / 50.72fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

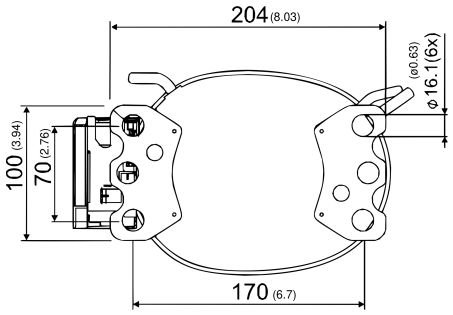
A Height	**166mm / 6.54in**
B Height	**159mm / 6.26in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



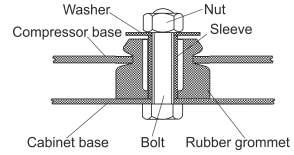
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

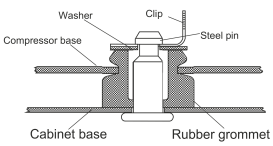


Dimensions in mm [in]

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
HXK55NG Configuration 1

Sales code:
16512000

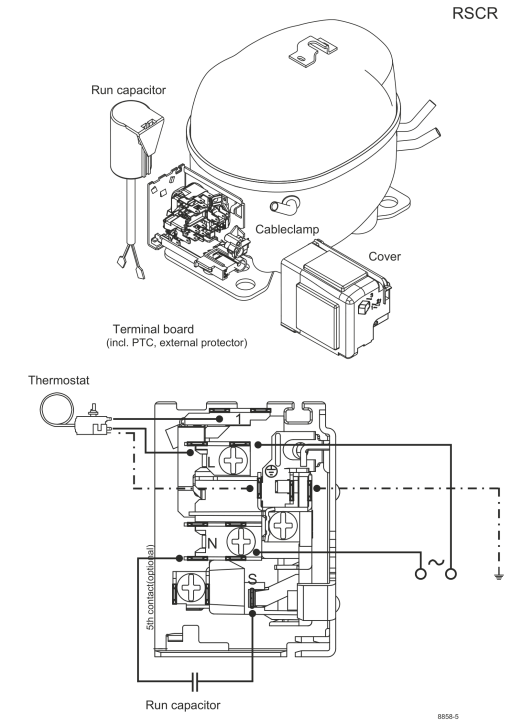
Configuration

Motor configuration	**eRSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R600a**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**e-PTC**
Run capacitor	**3 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**3.4 A**
RLA (rated load amps / 1s/ U(N))	**0.5 A**
Cut in current (U(N))	**7 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

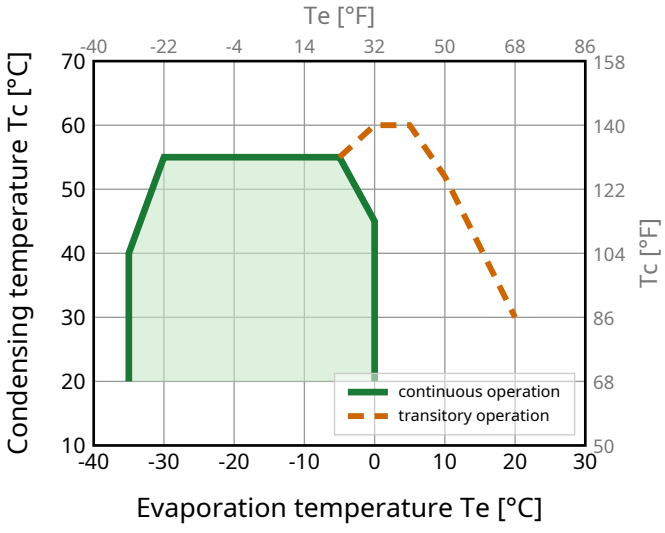


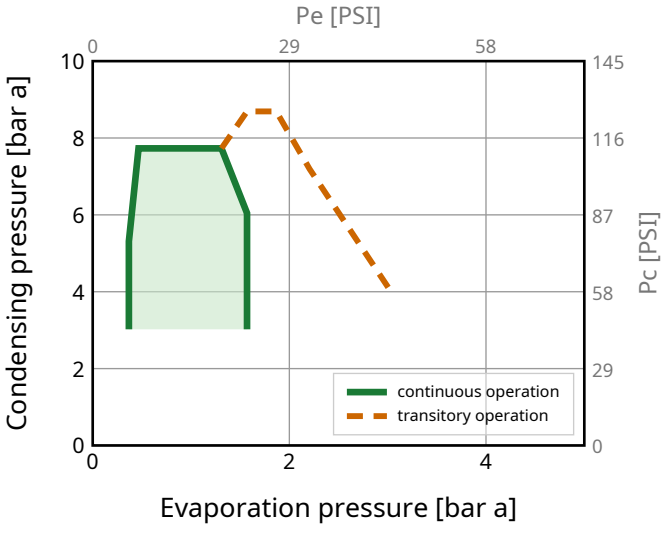
View full size

Components (already pre-assembled)
terminal board (ePTC) 103N0280
. run capacitor (3µF, 4.8mm) 10693200
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
103n2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model
HXK55NG Configuration 1

Sales code:
16512000

Standard Conditions

R600a, 220 V/50 Hz, eRSCR, 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	**98**	334	84	**1.55**	5.30	63	0.59	1.05	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**73**	248	63	**1.19**	4.06	61	0.58	0.95	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**48**	163	41	**1.04**	3.55	46	0.55	0.58	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**207**	706	178	**2.27**	7.74	91	0.67	2.46	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**162**	551	139	**1.90**	6.47	85	0.65	2.12	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**180**	614	155	**2.27**	7.73	80	0.63	2.31	**EN12900 MBP**

Performance Tables

R600a, 220 V/50 Hz, eRSCR, 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	**45**	154	39	**0.97**	3.31	46	0.55	0.53
-30	-22	**63**	216	54	**1.24**	4.21	51	0.56	0.75
-20	-4	**114**	388	98	**1.78**	6.09	64	0.59	1.36
-10	14	**187**	639	161	**2.36**	8.04	80	0.63	2.24
0	32	**288**	984	248	**2.98**	10.16	97	0.68	3.47
10	50	**422**	1439	363	**3.68**	12.54	115	0.74	5.12
15	59	**502**	1713	432	**4.07**	13.88	124	0.77	6.12

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

-35	-31	**38**	129	32	**0.73**	2.50	51	0.56	0.49
-30	-22	**53**	182	46	**0.96**	3.27	56	0.57	0.69
-20	-4	**97**	331	83	**1.42**	4.86	68	0.60	1.27
-10	14	**162**	551	139	**1.90**	6.47	85	0.65	2.12
0	32	**252**	858	216	**2.38**	8.13	106	0.71	3.32
10	50	**372**	1269	320	**2.91**	9.92	128	0.78	4.95
15	59	**445**	1518	383	**3.19**	10.88	140	0.82	5.96

Model
HXK55NG Configuration 2

Sales code:
16512000

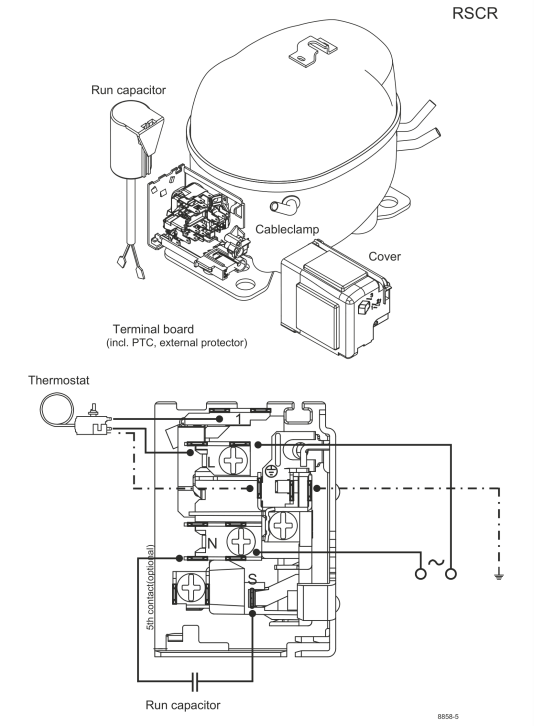
Configuration

Motor configuration	**eRSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R600a**
Application	**LBP+MBP**
Voltage range	**187-253 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**e-PTC**
Run capacitor	**3 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**3.4 A**
RLA (rated load amps / 1s/ U(N))	**0.5 A**
Cut in current (U(N))	**7 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

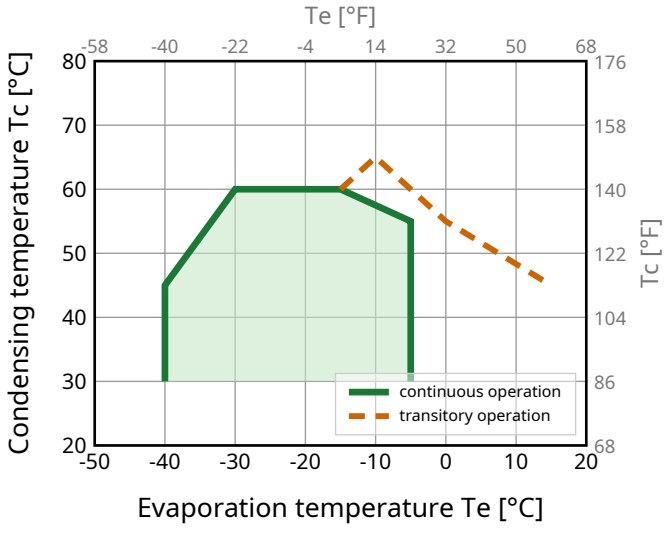


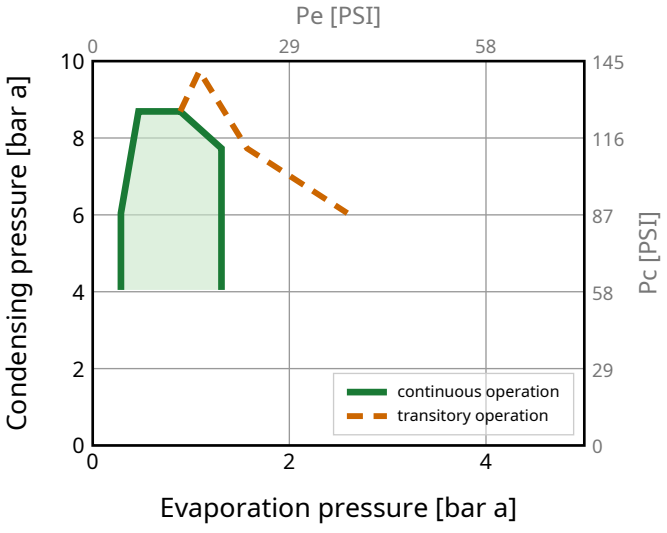
View full size

Components (already pre-assembled)
terminal board (ePTC) 103N0280
. run capacitor (3µF, 4.8mm) 10693200
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
103n2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model
HXK55NG Configuration 2

Sales code:
16512000

Standard Conditions

R600a, 230 V/60 Hz, eRSCR, 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	**110**	376	95	**1.63**	5.58	68	0.35	1.19	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**81**	277	70	**1.26**	4.30	64	0.34	1.06	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**51**	175	44	**1.18**	4.02	44	0.26	0.62	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**235**	803	202	**2.26**	7.72	104	0.50	2.80	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**185**	630	159	**1.91**	6.50	97	0.47	2.42	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**205**	698	176	**2.31**	7.89	88	0.43	2.63	**EN12900 MBP**

Performance Tables

R600a, 230 V/60 Hz, eRSCR, 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	**48**	164	41	**1.09**	3.71	44	0.27	0.57
-30	-22	**70**	239	60	**1.35**	4.62	52	0.29	0.83
-25	-13	**97**	332	84	**1.62**	5.52	60	0.32	1.16
-20	-4	**130**	444	112	**1.88**	6.41	69	0.36	1.55
-15	5	**168**	575	145	**2.14**	7.30	79	0.40	2.01
-10	14	**213**	727	183	**2.41**	8.21	88	0.43	2.55
-5	23	**264**	901	227	**2.68**	9.15	98	0.47	3.17

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

-35	-31	**37**	127	32	**0.80**	2.72	47	0.27	0.48
-30	-22	**57**	194	49	**1.03**	3.53	55	0.30	0.74
-25	-13	**81**	277	70	**1.26**	4.30	64	0.34	1.06
-20	-4	**110**	376	95	**1.48**	5.04	75	0.38	1.44
-15	5	**145**	493	124	**1.69**	5.77	86	0.42	1.89
-10	14	**185**	630	159	**1.91**	6.50	97	0.47	2.42
-5	23	**230**	786	198	**2.12**	7.24	109	0.52	3.03