Model
HXK12AT

Sales code:
16409500

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	Conf. 3
Motor configuration	RSIR	RSCR	RSCR
Power supply (nominal)	200-240 V/50 Hz	200-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1	1
Voltage range	170-264 V	170-264 V	198-253 V
Approvals	VDE	VDE	VDE
Starting torque	LST	LST	LST
Refrigerant	R600a	R600a	R600a
Application	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
HXK12AT

Sales code:
16409500

Compressor Design

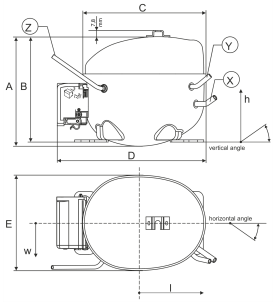
Oil type	**Mineral**	Winding resistance main	**12.1 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**12.3 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**130 °C**
Free gas volume comp.	**1,560 cm3 / 52.75fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

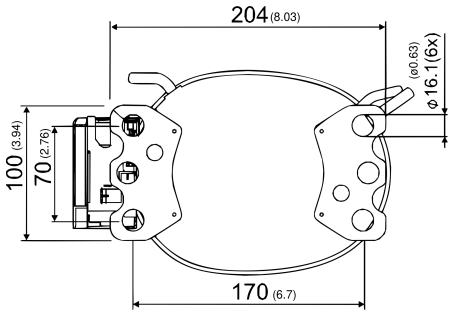
A Height	**174mm / 6.85in**
B Height	**167mm / 6.57in**
C Length shell	**194mm / 7.64in**
D Length w. cover	**238mm / 9.37in**
E Width	**151mm / 5.94in**

Find 3D Model here



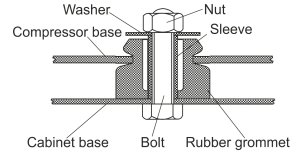
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

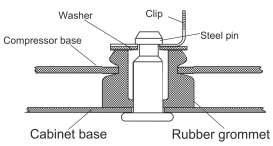


Dimensions in mm [in]

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:
16409500

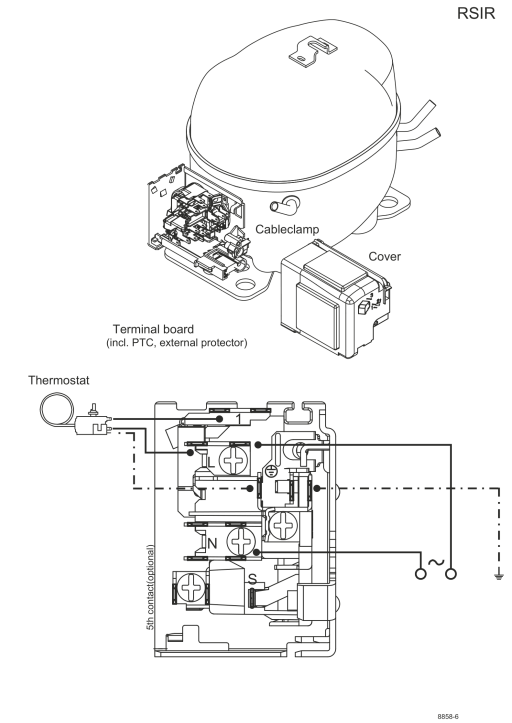
Configuration

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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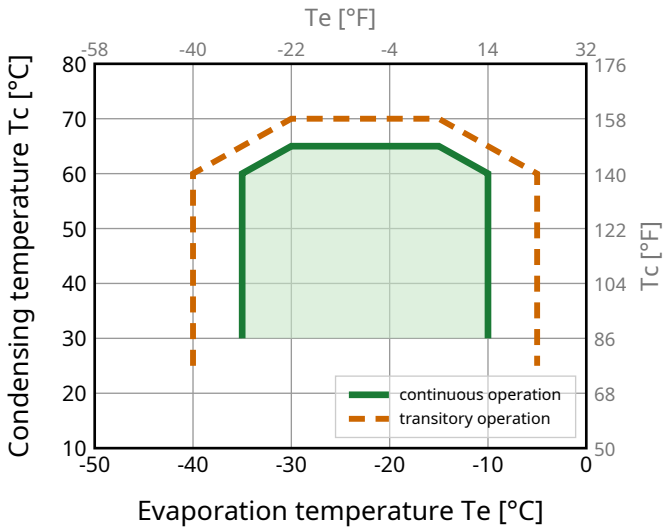
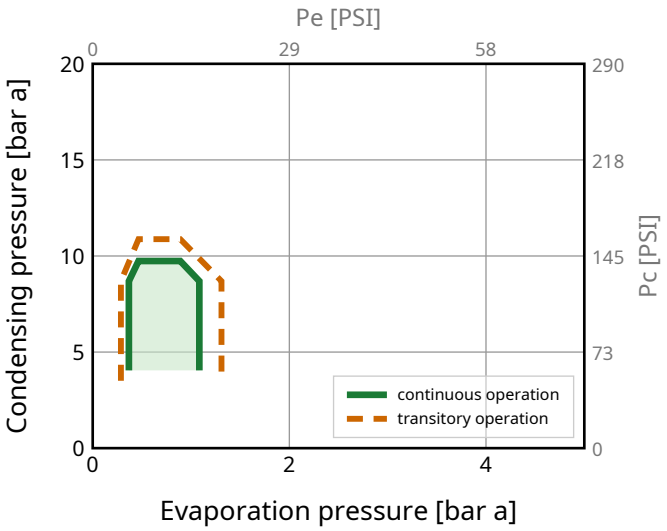
Components
. terminal board (PTC, 4.8mm) 16403800
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

Alternative components
. terminal board (PTC, 6.3mm) 16403600

Operation Pressure Range





Model Sales code:

HXK12AT Configuration 1 **16409500**

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	**198**	676	170	**1.67**	5.69	119	0.63	2.13	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**150**	511	129	**1.30**	4.43	115	0.61	1.95	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**114**	388	98	**1.20**	4.10	95	0.55	1.38	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**161**	548	138	**1.41**	4.81	114	0.61	2.34	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**208**	710	179	**1.93**	6.59	108	0.60	2.24	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**110**	377	95	**1.13**	3.87	98	0.55	1.31	**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	**110**	377	95	**1.13**	3.87	98	0.55	1.31
-30	-22	**136**	462	117	**1.35**	4.60	100	0.56	1.61
-25	-13	**171**	584	147	**1.59**	5.43	108	0.59	2.04
-20	-4	**217**	741	187	**1.83**	6.26	118	0.64	2.59
-15	5	**274**	935	236	**2.06**	7.04	133	0.70	3.27
-10	14	**341**	1164	293	**2.28**	7.77	150	0.77	4.09

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

-35	-31	**94**	321	81	**0.91**	3.12	103	0.57	1.22
-30	-22	**117**	401	101	**1.10**	3.74	107	0.58	1.53
-25	-13	**150**	511	129	**1.30**	4.43	115	0.61	1.95
-20	-4	**191**	652	164	**1.50**	5.10	128	0.67	2.50
-15	5	**242**	825	208	**1.68**	5.74	144	0.73	3.16
-10	14	**301**	1028	259	**1.85**	6.32	163	0.82	3.95

Model
HXK12AT Configuration 2

Sales code:
16409500

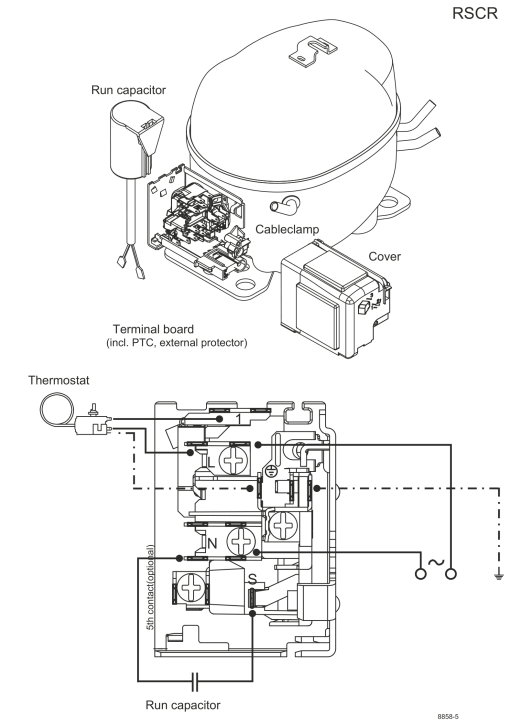
Configuration

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	**-/-**
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



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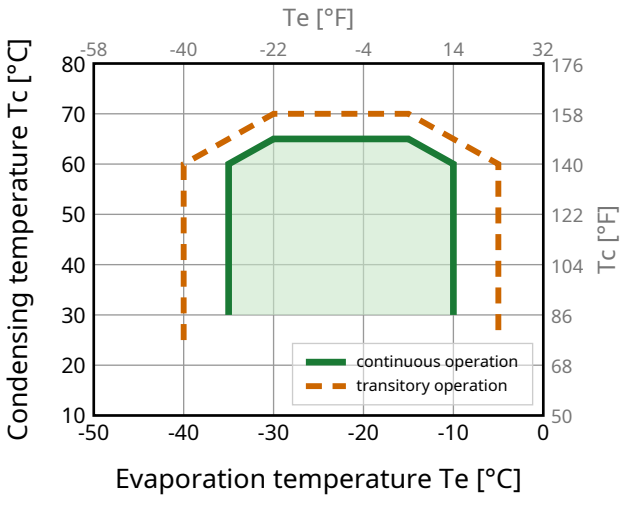
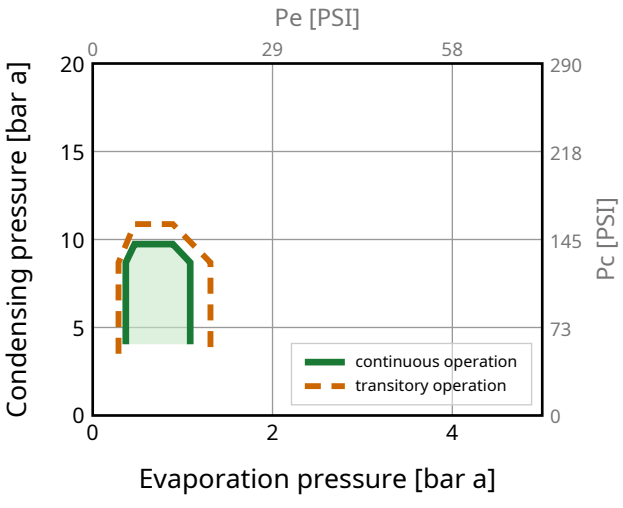
Components
. terminal board (PTC, 4.8mm) 16403800
. run capacitor (4µF, 4.8mm) 10693001
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. terminal board (PTC, 6.3mm) 16403600
. run capacitor (4µF, 6.3mm) 15186801
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HXK12AT Configuration 2

Sales code:
16409500

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	**200**	682	172	**1.73**	5.91	116	0.60	2.15	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**151**	516	130	**1.35**	4.60	112	0.59	1.97	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**115**	392	99	**1.25**	4.25	92	0.53	1.40	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**162**	553	139	**1.46**	4.99	111	0.59	2.37	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**210**	717	181	**2.00**	6.84	105	0.57	2.26	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**112**	381	96	**1.18**	4.02	95	0.53	1.33	**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	**112**	381	96	**1.18**	4.02	95	0.53	1.33
-30	-22	**137**	467	118	**1.40**	4.78	98	0.54	1.63
-25	-13	**173**	590	149	**1.65**	5.63	105	0.57	2.06
-20	-4	**219**	749	189	**1.90**	6.50	115	0.61	2.62
-15	5	**277**	944	238	**2.14**	7.31	129	0.67	3.31
-10	14	**345**	1176	296	**2.36**	8.06	146	0.74	4.13

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

-35	-31	**95**	324	82	**0.95**	3.24	100	0.55	1.24
-30	-22	**119**	405	102	**1.14**	3.89	104	0.56	1.54
-25	-13	**151**	516	130	**1.35**	4.60	112	0.59	1.97
-20	-4	**193**	659	166	**1.55**	5.30	124	0.64	2.52
-15	5	**244**	833	210	**1.75**	5.96	140	0.71	3.19
-10	14	**304**	1039	262	**1.92**	6.55	158	0.79	3.99

Model
HXK12AT Configuration 3

Sales code:
16409500

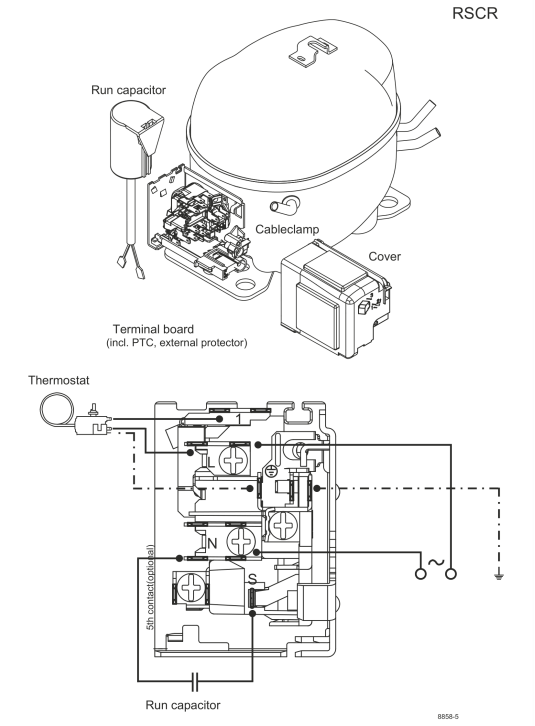
Configuration

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))	**8.2 A**
Cut in current (U(N))	**16.4 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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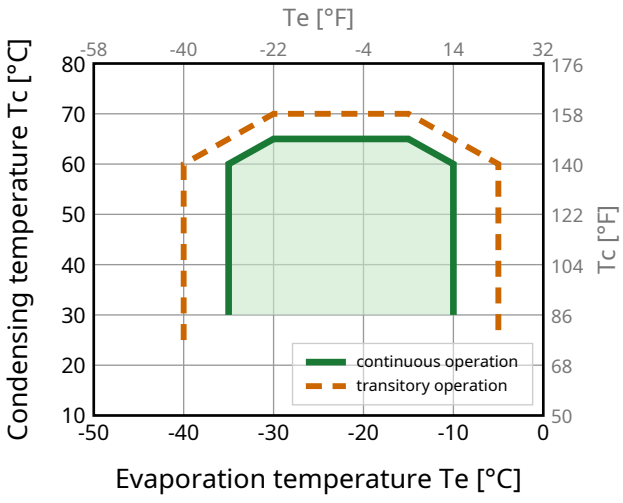
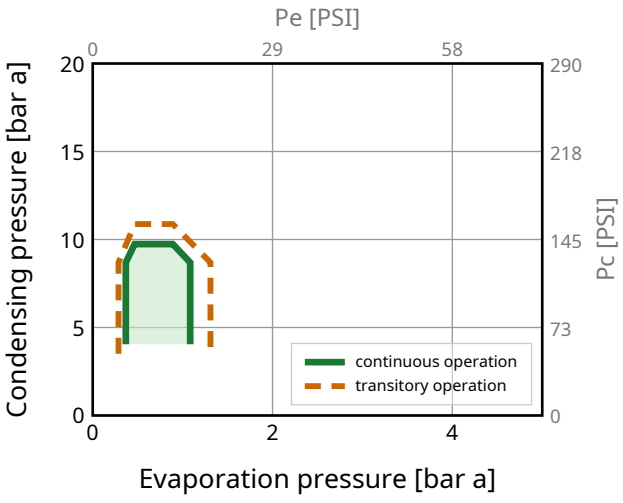
Components
. terminal board (PTC, 4.8mm) 16403800
. run capacitor (4µF, 4.8mm) 10693001
b cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

Alternative components
. terminal board (PTC, 6.3mm) 16403600
. run capacitor (4µF, 6.3mm) 15186801
. screw uni en iso 4757 10641201

Operation Pressure Range





Model
HXK12AT Configuration 3

Sales code:
16409500

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	**1.75**	5.96	135	0.71	2.53	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**178**	608	153	**1.36**	4.64	131	0.70	2.32	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**134**	458	115	**1.25**	4.26	107	0.62	1.63	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**190**	650	164	**1.47**	5.02	129	0.70	2.78	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**245**	837	211	**2.01**	6.85	122	0.68	2.64	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**131**	447	113	**1.19**	4.04	110	0.63	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	**1.19**	4.04	110	0.63	1.55
-30	-22	**160**	547	138	**1.41**	4.80	114	0.64	1.91
-25	-13	**202**	690	174	**1.66**	5.65	122	0.67	2.41
-20	-4	**257**	876	221	**1.91**	6.51	135	0.72	3.06
-15	5	**324**	1104	278	**2.14**	7.31	151	0.79	3.87
-10	14	**403**	1376	347	**2.36**	8.05	171	0.88	4.83

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

-35	-31	**112**	383	97	**0.96**	3.28	117	0.65	1.46
-30	-22	**140**	477	120	**1.15**	3.93	121	0.66	1.82
-25	-13	**178**	608	153	**1.36**	4.64	131	0.70	2.32
-20	-4	**227**	776	196	**1.56**	5.34	145	0.76	2.97
-15	5	**288**	981	247	**1.75**	5.99	164	0.84	3.76
-10	14	**359**	1224	308	**1.93**	6.57	186	0.93	4.70