

Model
HXK87AT

Sales code:
16408900

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	8.60 kg / 18.96lbs
Displacement	8.80 cm3 / 0.54cu.in
Compressors on pallet	100



General – Configurations With HXK87AT

-	Conf. 1	Conf. 2	Conf. 3
Motor configuration	RSCR	RSIR	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.

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Compressor Design

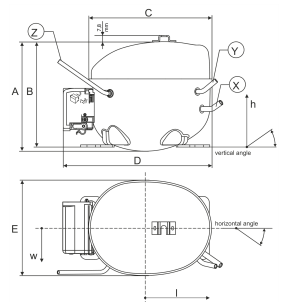
Oil type	Mineral	Winding resistance main	18.8 Ohm
Oil viscosity	5cSt	Winding resistance aux	10.7 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,620 cm ³ / 54.78fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

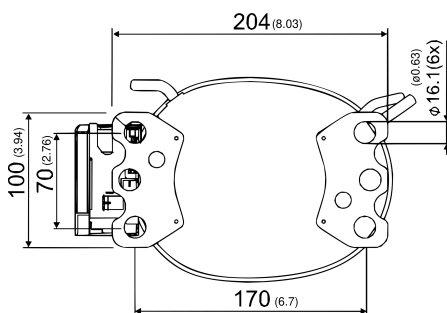
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



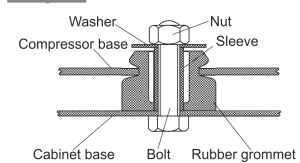
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70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

Mounting Accessories

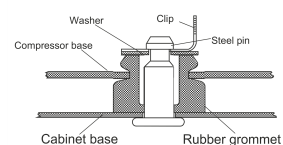


Dimensions in mm [in]

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
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Configuration 1

Sales code:
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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))	6.6 A
RLA (rated load amps / 1s/ U(N))	0.6 A

Ambient/ machine room temperatures minimum /maximum

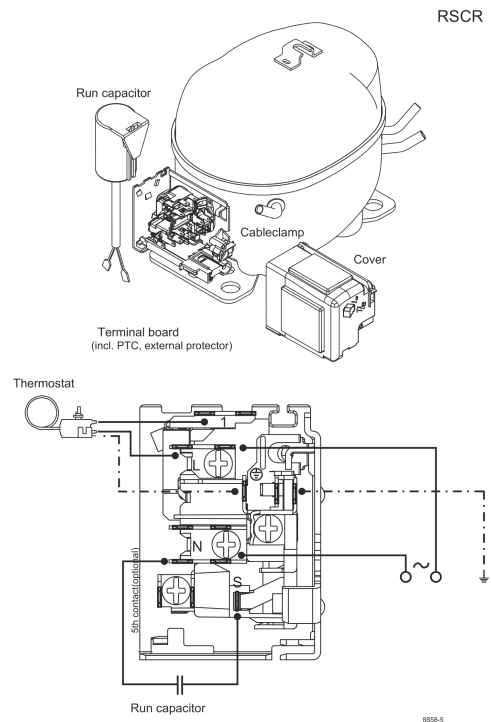
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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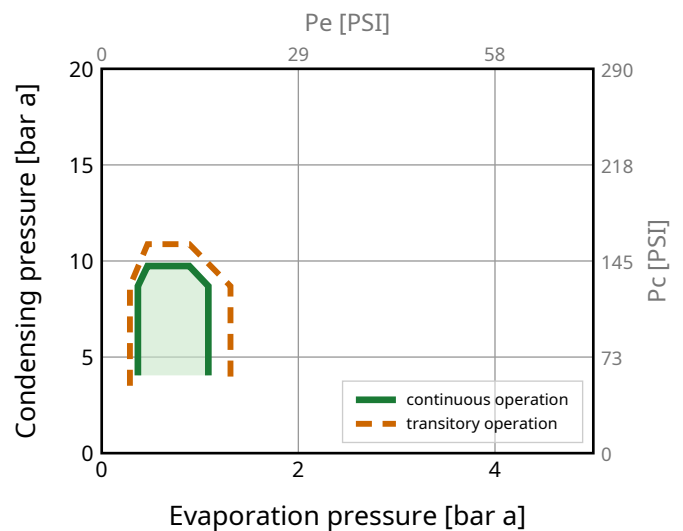
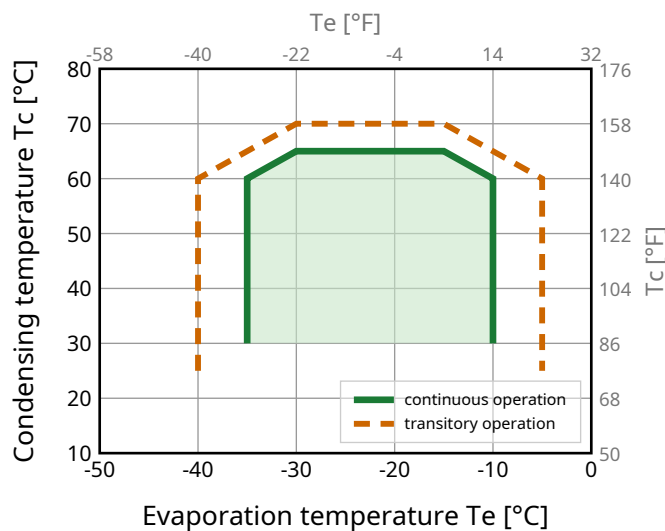
Components

- . terminal board (PTC, 6.3mm) 16413200
- . run capacitor (4 μ F, 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
HXK87AT

Configuration 1

Sales code:
16408900

Standard Conditions

R600a, 220 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	155	528	133	1.71	5.83	91	0.47	1.66	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	117	398	100	1.34	4.57	87	0.45	1.52	CECOMAF LBP
-35 -31	40 104	20 68	40 104	91	311	78	1.35	4.60	68	0.32	1.11	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	126	428	108	1.43	4.87	88	0.46	1.83	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	163	555	140	1.95	6.64	84	0.44	1.75	AHAM LBP
-35 -31	45 113	32 89.6	45 113	89	302	76	1.28	4.38	69	0.30	1.05	opt LBP

Performance Tables

R600a, 220 V/50 Hz, RSCR, static

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

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	89	302	76	1.28	4.38	69	0.30	1.05
-30	-22	106	362	91	1.41	4.82	75	0.38	1.26
-25	-13	133	455	115	1.61	5.48	83	0.43	1.59
-20	-4	170	580	146	1.84	6.28	92	0.48	2.03
-15	5	215	734	185	2.10	7.15	103	0.52	2.57
-10	14	268	913	230	2.37	8.07	113	0.56	3.21

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

-35	-31	73	248	63	1.05	3.59	69	0.26	0.94
-30	-22	91	310	78	1.18	4.01	77	0.36	1.18
-25	-13	117	398	100	1.34	4.57	87	0.45	1.52
-20	-4	150	511	129	1.53	5.21	98	0.51	1.96
-15	5	190	647	163	1.72	5.87	110	0.56	2.48
-10	14	235	802	202	1.92	6.55	122	0.61	3.08

Model
HXK87AT

Configuration 2

Sales code:
16408900

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

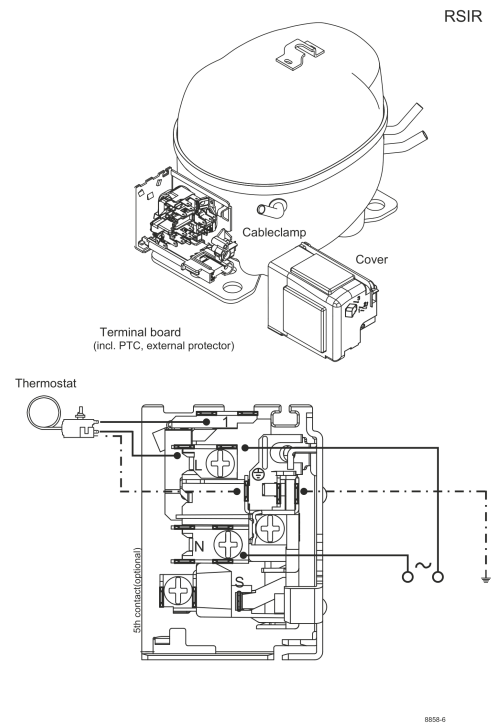
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram

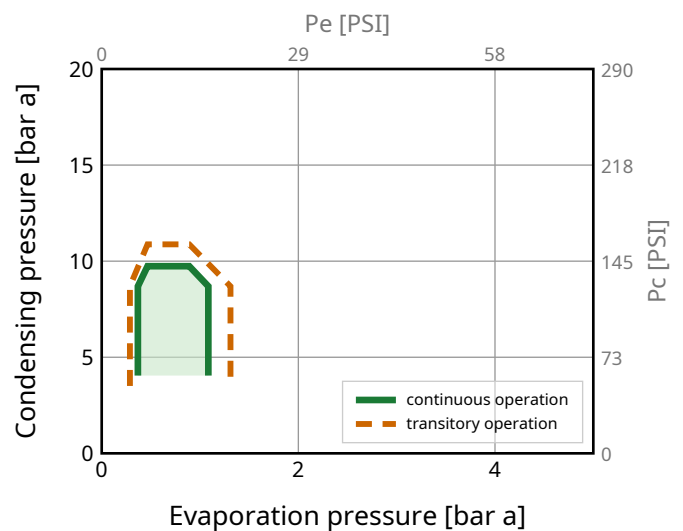
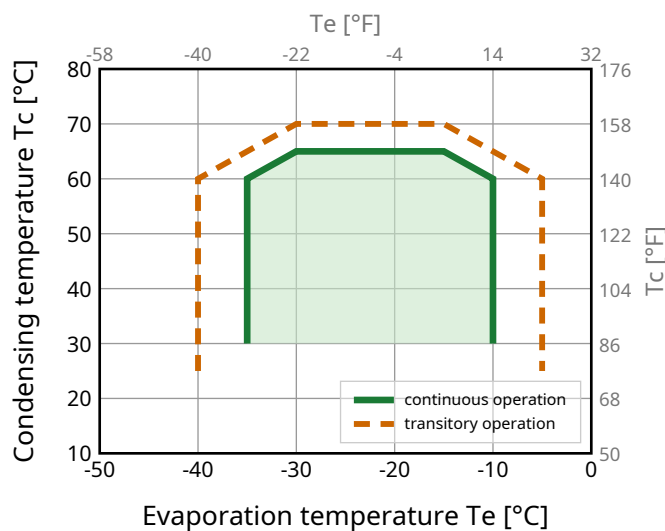


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Components

- . terminal board (PTC, 6.3mm) 16413200
- b** cover terminal board 10636401
- . cable clamp 16058100
- . screw - uni6954 10636000
- . screw - uni6954 10636200
- . screw uni en iso 4757 10641201

Operation Pressure Range



Model
HXK87AT

Configuration 2

Sales code:
16408900

Standard Conditions

R600a, 200 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	154	524	132	1.67	5.68	92	0.48	1.65	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	116	395	100	1.31	4.46	89	0.45	1.51	CECOMAF LBP
-35 -31	40 104	20 68	40 104	91	309	78	1.31	4.48	69	0.32	1.10	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	125	425	107	1.39	4.74	90	0.47	1.82	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	162	551	139	1.90	6.47	85	0.45	1.74	AHAM LBP
-35 -31	45 113	32 89.6	45 113	88	300	76	1.25	4.27	70	0.31	1.04	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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	88	300	76	1.25	4.27	70	0.31	1.04
-30	-22	105	359	91	1.38	4.70	76	0.39	1.25
-25	-13	132	452	114	1.57	5.35	84	0.44	1.58
-20	-4	169	576	145	1.79	6.12	94	0.49	2.01
-15	5	213	728	184	2.04	6.97	104	0.53	2.55
-10	14	266	907	229	2.31	7.86	115	0.58	3.18

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

-35	-31	72	246	62	1.03	3.50	70	0.26	0.94
-30	-22	90	307	77	1.15	3.91	79	0.37	1.17
-25	-13	116	395	100	1.31	4.46	89	0.45	1.51
-20	-4	149	508	128	1.49	5.07	100	0.52	1.94
-15	5	188	642	162	1.68	5.72	112	0.57	2.46
-10	14	233	796	201	1.87	6.39	125	0.62	3.06

Model
HXK87AT

Configuration 3

Sales code:
16408900

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

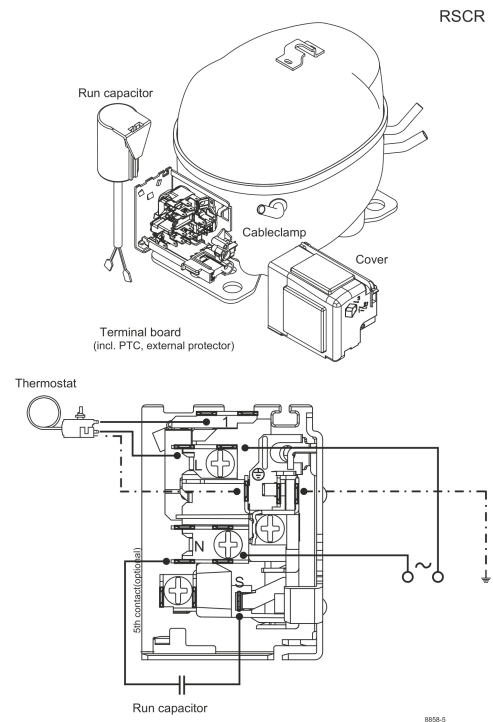
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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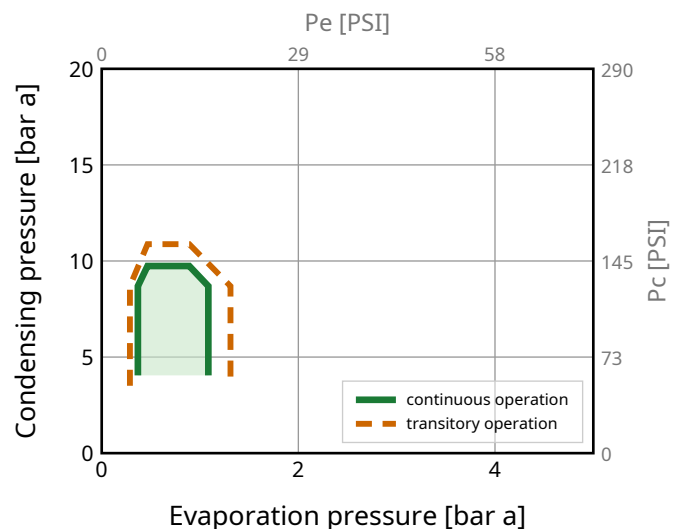
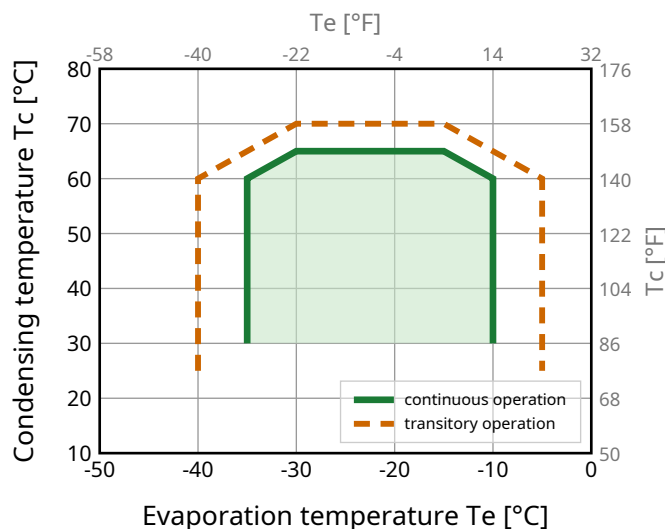
Components

- . terminal board (PTC, 6.3mm) 16413200
- . run capacitor (4 μ F, 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
HXK87AT

Configuration 3

Sales code:
16408900

Standard Conditions

R600a, 220 V/60 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	184	626	158	1.77	6.03	104	0.54	1.97	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	138	473	119	1.39	4.73	100	0.51	1.80	CECOMAF LBP
-35 -31	40 104	20 68	40 104	107	365	92	1.38	4.69	78	0.36	1.30	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	148	506	128	1.47	5.01	101	0.53	2.16	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	191	651	164	1.99	6.78	96	0.51	2.05	AHAM LBP
-35 -31	45 113	32 89.6	45 113	104	357	90	1.32	4.50	79	0.35	1.24	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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	104	357	90	1.32	4.50	79	0.35	1.24
-30	-22	125	426	107	1.45	4.94	86	0.43	1.49
-25	-13	157	536	135	1.65	5.62	95	0.50	1.87
-20	-4	200	682	172	1.89	6.44	106	0.55	2.38
-15	5	253	863	218	2.15	7.33	118	0.60	3.02
-10	14	315	1075	271	2.42	8.27	130	0.65	3.77

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

-35	-31	87	297	75	1.10	3.74	79	0.30	1.13
-30	-22	108	368	93	1.22	4.16	89	0.42	1.41
-25	-13	138	473	119	1.39	4.73	100	0.51	1.80
-20	-4	178	606	153	1.57	5.37	113	0.58	2.32
-15	5	224	766	193	1.77	6.06	126	0.64	2.94
-10	14	278	949	239	1.98	6.76	140	0.70	3.65