

Model
NLE11MN

Sales code:
105H6177

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	11.80 kg / 26.01lbs
Displacement	11.15 cm3 / 0.68cu.in
Compressors on pallet	80



General – Configurations With NLE11MN

-	Conf. 1	Conf. 2	Conf. 3
Motor configuration	CSIR	eRSIR	eRSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1	1
Voltage range	198-254 V	198-254 V	198-254 V
Approvals	CCC, EAC, VDE	CCC, EAC, VDE	CCC, EAC, VDE
Starting torque	HST	LST	LST
Refrigerant	R290	R290	R290
Application	MBP	MBP	MBP
Hot gas defrost	OK	OK	OK
Long interval pull down	OK	OK	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

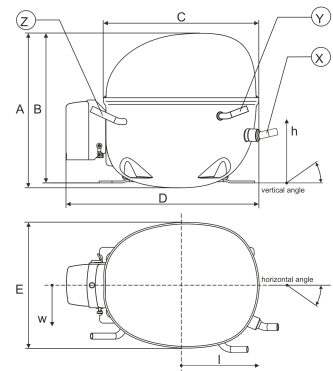
Oil type	POE	Winding resistance main	4.94 Ohm
Oil viscosity	32cSt	Winding resistance aux	8.89 Ohm
Oil quantity	300 / 10.14fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

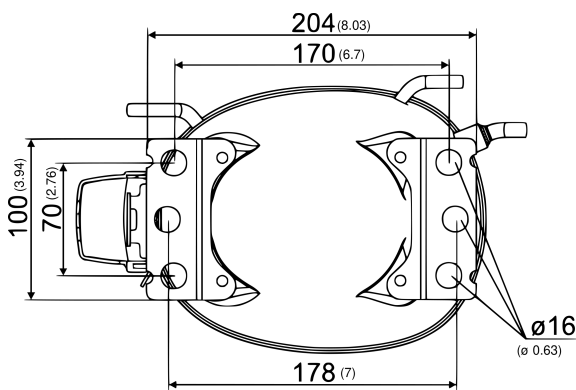
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

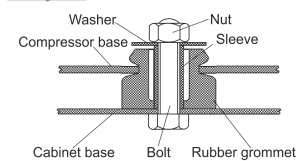


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-109.3/94.3/72 / -4.30/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

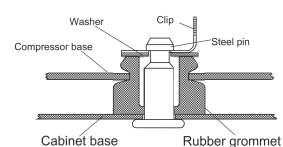
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	one comp.	multi pack
Bolt joint M6 Ø16mm	118-1917	118-1918
Bolt joint Ø1/4" Ø16mm	118-1946	-
Snap-on Ø7,3 Ø16mm	118-1947	118-1919

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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	CCC, EAC, VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	13.65 A
RLA (rated load amps / 1s/ U(N))	2.8 A
Cut in current (U(N))	13.65 A

Ambient/ machine room temperatures minimum /maximum

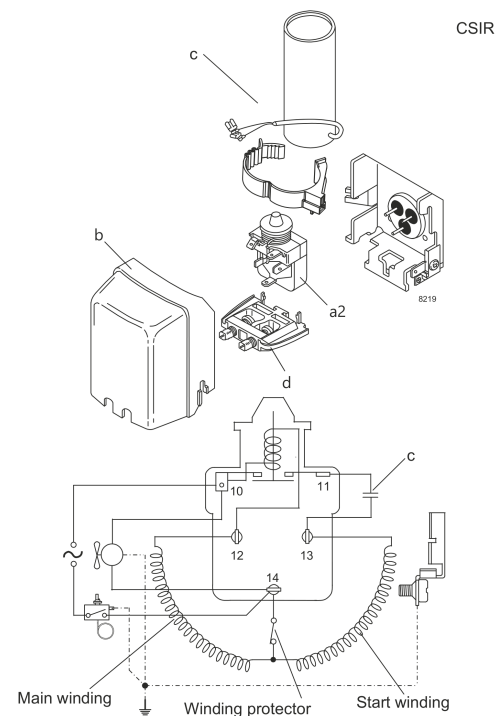
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a2 relay 117U7005

c start capacitor (80µF) 117U5015

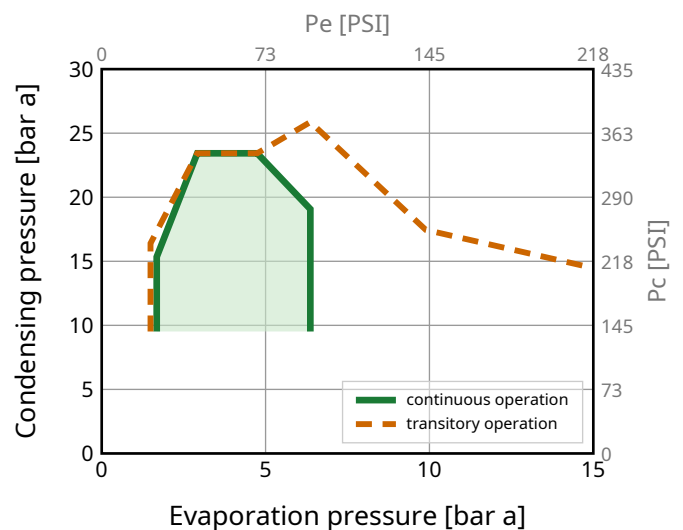
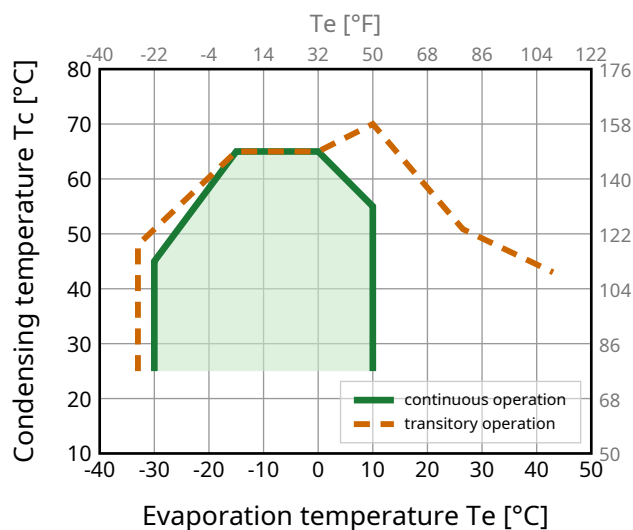
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



Model

NLE11MN

Configuration 1

Sales code:

105H6177

Standard Conditions

R290, 220 V/50 Hz, CSIR, fan 3m/s

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	982	3349	844	2.01	6.87	488	2.86	11.24	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	782	2667	672	1.69	5.75	464	2.76	9.94	CECOMAF MBP
-10 14	45 113	20 68	45 113	871	2970	749	2.06	7.03	422	2.63	10.71	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	924	3154	795	2.01	6.84	461	2.77	12.02	ARI540 MBP
-10 14	45 113	32 89.6	45 113	905	3088	778	2.14	7.31	422	2.63	10.39	opt MBP 1
-25 -13	45 113	32 89.6	45 113	489	1669	421	1.51	5.15	325	2.29	5.55	opt MBP 2

Performance Tables

R290, 220 V/50 Hz, CSIR, fan 3m/s

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]
-30	-22	390	1331	336	1.33	4.55	292	2.20	4.41
-20	-4	607	2072	522	1.70	5.80	358	2.39	6.91
-10	14	905	3088	778	2.14	7.31	422	2.63	10.39
0	32	1291	4406	1110	2.69	9.18	480	2.85	15.01
10	50	1774	6052	1525	3.40	11.59	522	2.98	20.98

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

-30	-22	340	1158	292	1.12	3.81	304	2.23	4.24
-20	-4	524	1788	451	1.37	4.68	382	2.46	6.59
-10	14	782	2667	672	1.69	5.75	464	2.76	9.94
0	32	1121	3823	964	2.07	7.06	541	3.08	14.45
10	50	1549	5285	1332	2.55	8.70	607	3.34	20.35

Model
NLE11MN

Configuration 2

Sales code:
105H6177

Configuration

Motor configuration	eRSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	LST
Approvals	CCC, EAC, VDE
Starting device type	e-PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	13.65 A
RLA (rated load amps / 1s/ U(N))	2.8 A
Cut in current (U(N))	13.65 A

Ambient/ machine room temperatures minimum /maximum

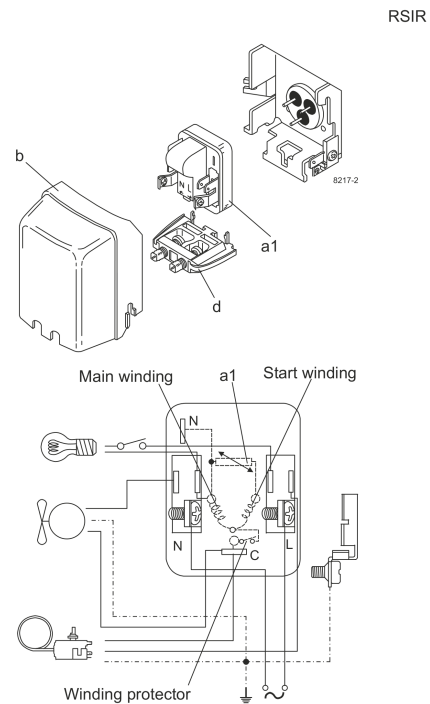
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a1 e-PTC starter (220V, 250hm, 4.8mm) 103N0050

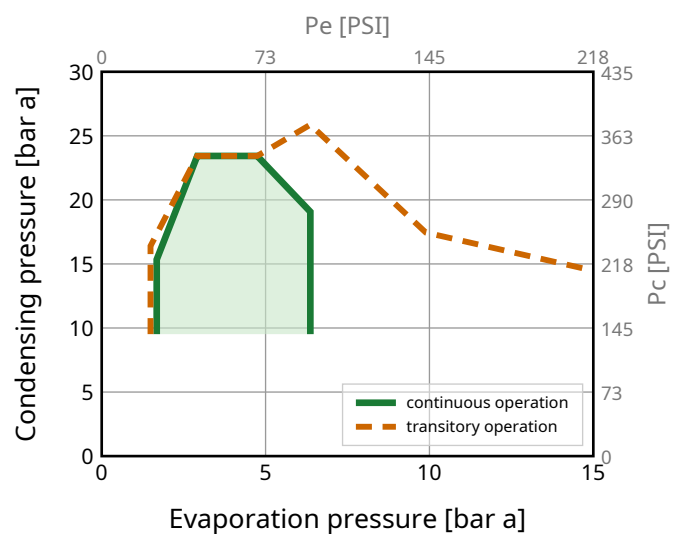
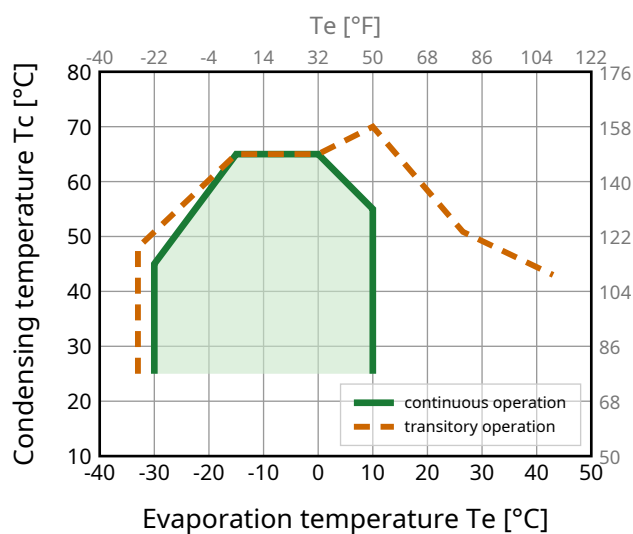
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



Model

NLE11MN

Configuration 2

Sales code:

105H6177

Standard Conditions

R290, 220 V/50 Hz, eRSIR, fan 3m/s

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	982	3349	844	2.01	6.87	488	2.86	11.24	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	782	2667	672	1.69	5.75	464	2.76	9.94	CECOMAF MBP
-10 14	45 113	20 68	45 113	871	2970	749	2.06	7.03	422	2.63	10.71	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	924	3154	795	2.01	6.84	461	2.77	12.02	ARI540 MBP
-10 14	45 113	32 89.6	45 113	905	3088	778	2.14	7.31	422	2.63	10.39	opt MBP 1
-25 -13	45 113	32 89.6	45 113	489	1669	421	1.51	5.15	325	2.29	5.55	opt MBP 2

Performance Tables

R290, 220 V/50 Hz, eRSIR, fan 3m/s

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]
-30	-22	390	1331	336	1.33	4.55	292	2.20	4.41
-20	-4	607	2072	522	1.70	5.80	358	2.39	6.91
-10	14	905	3088	778	2.14	7.31	422	2.63	10.39
0	32	1291	4406	1110	2.69	9.18	480	2.85	15.01
10	50	1774	6052	1525	3.40	11.59	522	2.98	20.98

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

-30	-22	340	1158	292	1.12	3.81	304	2.23	4.24
-20	-4	524	1788	451	1.37	4.68	382	2.46	6.59
-10	14	782	2667	672	1.69	5.75	464	2.76	9.94
0	32	1121	3823	964	2.07	7.06	541	3.08	14.45
10	50	1549	5285	1332	2.55	8.70	607	3.34	20.35

Model
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Configuration 3

Sales code:
105H6177

Configuration

Motor configuration	eRSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	LST
Approvals	CCC, EAC, VDE
Starting device type	e-PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	13.65 A
RLA (rated load amps / 1s/ U(N))	2.8 A
Cut in current (U(N))	13.65 A

Ambient/ machine room temperatures minimum /maximum

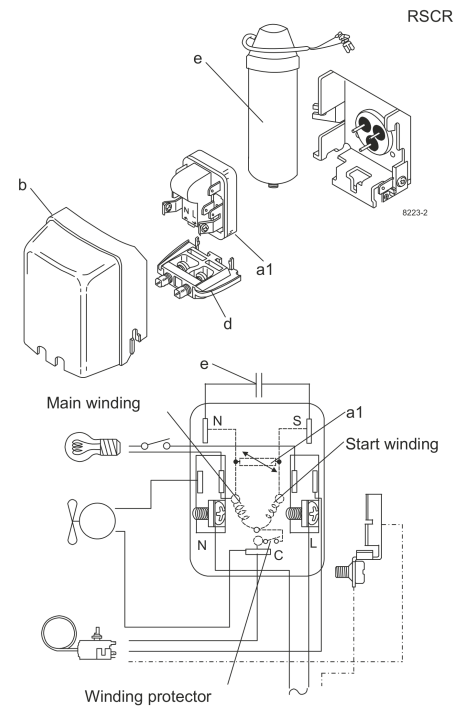
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a1 e-PTC starter (220V, 250hm, 4.8mm) 103N0050

e run capacitor (4 μ F, 4.8mm) 117-7119

b plastic cover 103N2010

d cord relief 103N1010

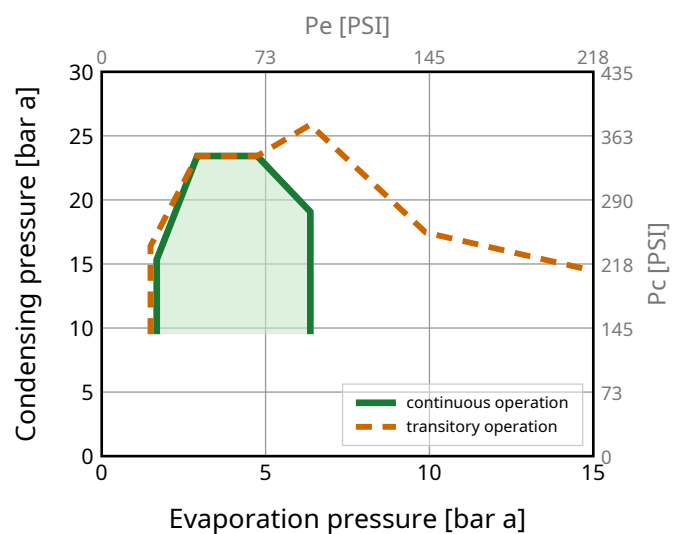
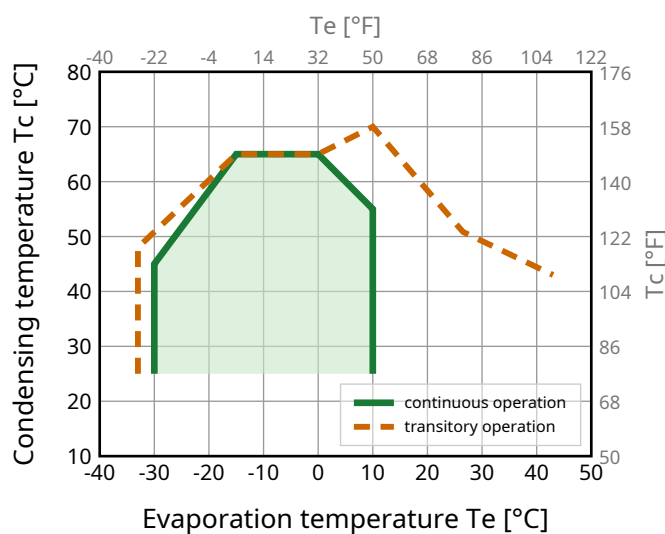
bracket for run capacitor 117-0300

screw M4x8mm 117-0301

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Configuration 3

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Standard Conditions

R290, 220 V/50 Hz, eRSCR, fan 3m/s

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	986	3365	848	2.11	7.21	467	2.74	11.29	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	785	2678	675	1.77	6.03	444	2.64	9.98	CECOMAF MBP
-10 14	45 113	20 68	45 113	874	2983	752	2.16	7.37	405	2.52	10.76	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	929	3168	799	2.10	7.18	441	2.65	12.07	ARI540 MBP
-10 14	45 113	32 89.6	45 113	909	3102	782	2.25	7.66	405	2.52	10.44	opt MBP 1
-25 -13	45 113	32 89.6	45 113	491	1675	422	1.58	5.40	310	2.18	5.57	opt MBP 2

Performance Tables

R290, 220 V/50 Hz, eRSCR, fan 3m/s

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]
-30	-22	391	1335	337	1.40	4.79	279	2.10	4.42
-20	-4	610	2080	524	1.78	6.08	342	2.29	6.94
-10	14	909	3102	782	2.25	7.66	405	2.52	10.44
0	32	1299	4433	1117	2.83	9.65	459	2.73	15.11
10	50	1790	6108	1539	3.60	12.28	498	2.84	21.17

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

-30	-22	341	1162	293	1.18	4.01	290	2.12	4.25
-20	-4	526	1794	452	1.44	4.91	366	2.35	6.62
-10	14	785	2678	675	1.77	6.03	444	2.64	9.98
0	32	1127	3846	969	2.18	7.42	518	2.94	14.54
10	50	1563	5334	1344	2.70	9.22	579	3.18	20.54