

Model
SCE15CNLX

Sales code:
104H7578

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SCE15CNLX

-	Conf. 1	Conf. 2	Conf. 3
Motor configuration	CSCR	CSCR	CSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1	1
Voltage range	103-127 V	95-135 V	103-127 V
Approvals	UL	UL	UL
Starting torque	HST	HST	HST
Refrigerant	R290	R290	R290
Application	LBP	LBP	LBP
Hot gas defrost	OK	OK	OK

Application Notes

- Protector and cover are included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

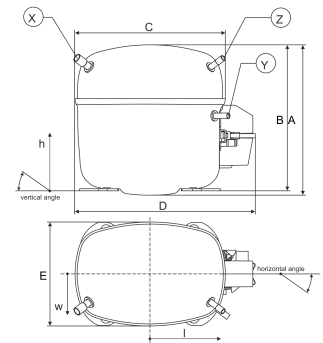
Oil type	POE	Winding resistance main	0.82 Ohm
Oil viscosity	32cSt	Winding resistance aux	2.83 Ohm
Oil quantity	569 / 19.24fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

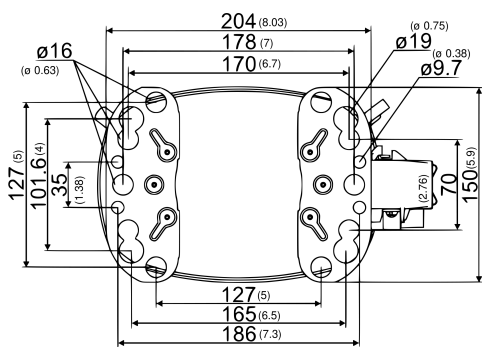
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

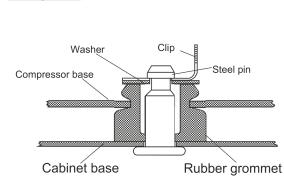
Mounting Accessories



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	-
Bolt joint ø1/4" ø19mm	118-1949	-
Snap-on ø7,3 ø16mm	118-1947	118-1919

Model

SCE15CNLX

Configuration 1

Sales code:

104H7578

Configuration

Motor configuration	CSCR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	23.5 μF
Start capacitor	280 μF
LRA (locked rotor amps / 4s/ U(N))	39.66 A
RLA (rated load amps / 1s/ U(N))	7.7 A
Cut in current (U(N))	39.66 A

Ambient/ machine room temperatures minimum /maximum

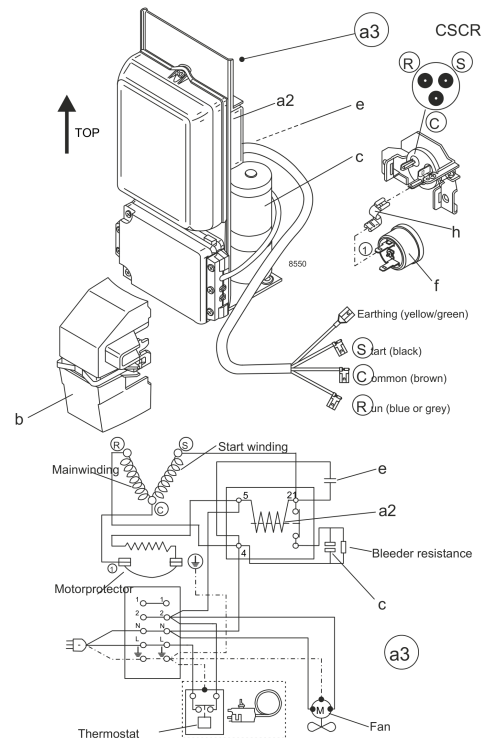
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (protector + ~holder + cover: pre assembled)

a3 SC starter kit (550mm) 117-7801

h protector holder 117U0439

f ext. protector (T1101) 117U3218

b plastic cover + clamp 117U1021

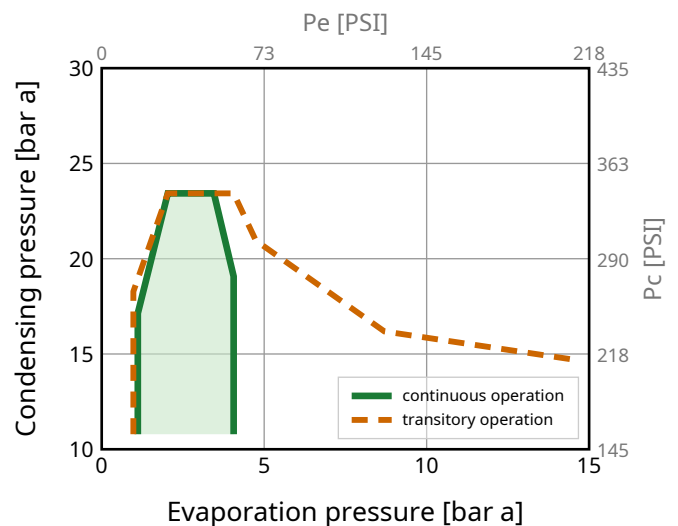
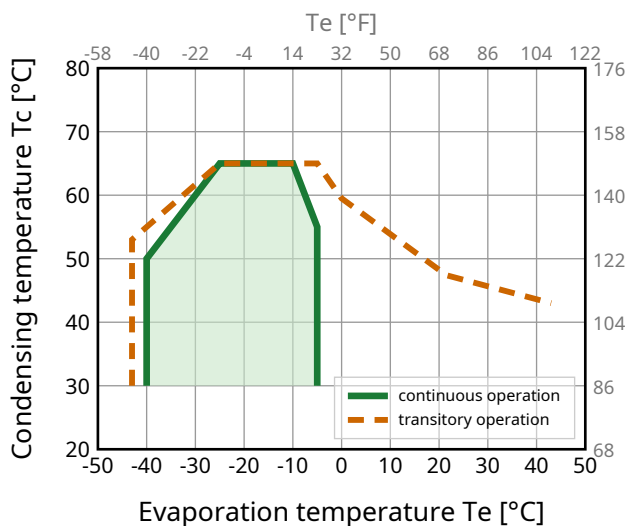
Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

e run capacitor (23,5 μ F, 6.3mm) 117-7133

c start capacitor (280 μ F, 6.3mm) 117U5350

Operation Pressure Range



Model
SCE15CNLX

Configuration 1

Sales code:
104H7578

Standard Conditions

R290, 115 V/60 Hz, CSCR, 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	804	2745	692	1.58	5.40	508	4.90	8.17	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	583	1990	501	1.22	4.15	480	4.70	7.31	CECOMAF LBP
-35 -31	40 104	20 68	40 104	403	1376	347	1.18	4.03	342	3.67	4.63	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	668	2281	575	1.33	4.56	501	4.78	9.28	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	918	3133	790	1.91	6.52	481	4.60	9.33	AHAM LBP
-35 -31	45 113	32 89.6	45 113	348	1186	299	1.05	3.58	331	3.56	3.92	opt LBP

Performance Tables

R290, 115 V/60 Hz, CSCR, 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]
-40	-40	172	588	148	0.70	2.38	248	3.07	1.94
-35	-31	348	1186	299	1.05	3.58	331	3.56	3.92
-30	-22	528	1802	454	1.30	4.45	405	4.05	5.97
-25	-13	720	2457	619	1.53	5.21	471	4.53	8.16
-20	-4	929	3171	799	1.76	6.00	529	4.99	10.57
-15	5	1161	3962	999	2.01	6.86	578	5.42	13.27
-10	14	1422	4852	1223	2.30	7.84	619	5.81	16.33
-5	23	1718	5860	1477	2.63	8.98	652	6.15	19.84

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

-40	-40	49	167	42	0.28	0.97	172	2.63	0.61
-35	-31	225	768	194	0.79	2.69	286	3.34	2.81
-30	-22	401	1370	345	1.03	3.53	388	4.03	5.01
-25	-13	583	1990	501	1.22	4.15	480	4.70	7.31
-20	-4	776	2648	668	1.39	4.73	560	5.32	9.77
-15	5	987	3366	848	1.57	5.35	629	5.89	12.48
-10	14	1220	4162	1049	1.77	6.06	687	6.40	15.51
-5	23	1482	5057	1275	2.02	6.88	735	6.83	18.97

Model

SCE15CNLX

Configuration 2

Sales code:

104H7578

Configuration

Motor configuration	CSCR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	23.5 μF
Start capacitor	280 μF
LRA (locked rotor amps / 4s/ U(N))	39.66 A
RLA (rated load amps / 1s/ U(N))	7.7 A
Cut in current (U(N))	39.66 A

Ambient/ machine room temperatures minimum /maximum

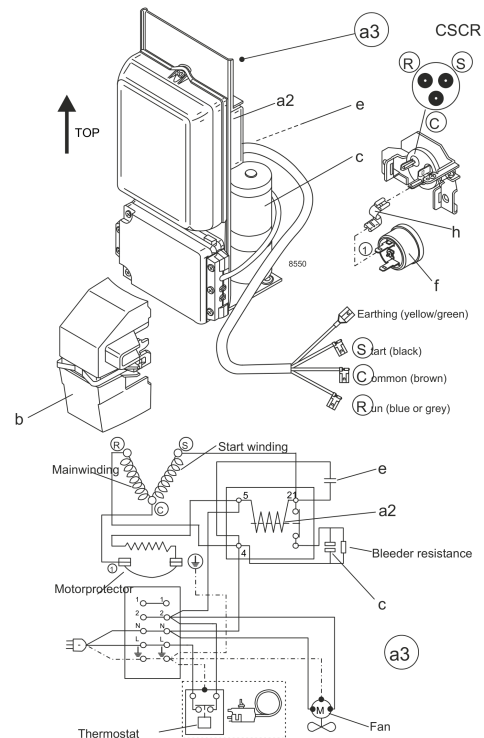
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (protector + ~holder + cover: pre assembled)

a3 SC starter kit (550mm) 117-7801

h protector holder 117U0439

f ext. protector (T1101) 117U3218

b plastic cover + clamp 117U1021

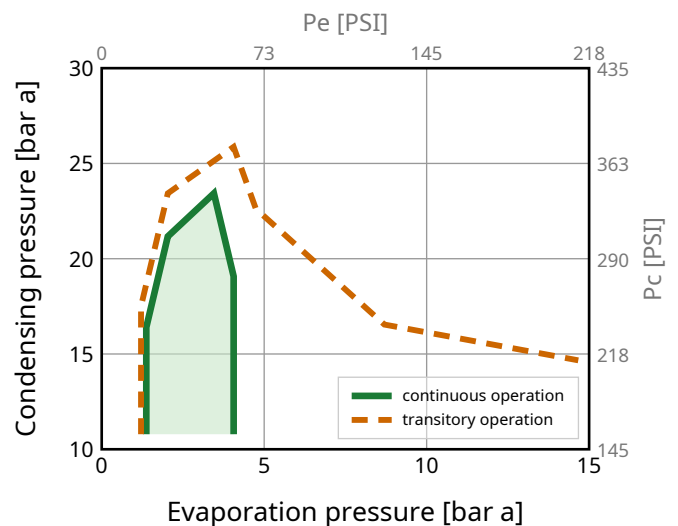
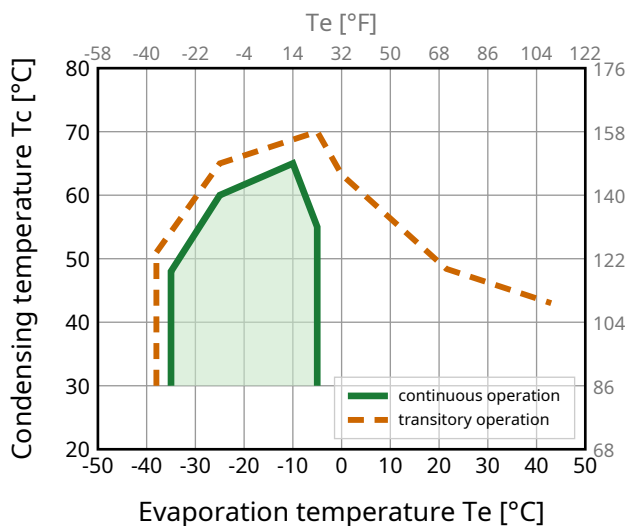
Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

e run capacitor (23,5 μ F, 6.3mm) 117-7133

c start capacitor (280 μ F, 6.3mm) 117U5350

Operation Pressure Range



Model

SCE15CNLX

Configuration 2

Sales code:

104H7578

Standard Conditions

R290, 115 V/60 Hz, CSCR, 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	804	2745	692	1.58	5.40	508	4.90	8.17	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	583	1990	501	1.22	4.15	480	4.70	7.31	CECOMAF LBP
-35 -31	40 104	20 68	40 104	403	1376	347	1.18	4.03	342	3.67	4.63	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	668	2281	575	1.33	4.56	501	4.78	9.28	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	918	3133	790	1.91	6.52	481	4.60	9.33	AHAM LBP
-35 -31	45 113	32 89.6	45 113	348	1186	299	1.05	3.58	331	3.56	3.92	opt LBP

Performance Tables

R290, 115 V/60 Hz, CSCR, 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]
-35	-31	348	1186	299	1.05	3.58	331	3.56	3.92
-30	-22	528	1802	454	1.30	4.45	405	4.05	5.97
-25	-13	720	2457	619	1.53	5.21	471	4.53	8.16
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pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

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-25	-13	583	1990	501	1.22	4.15	480	4.70	7.31
-20	-4	776	2648	668	1.39	4.73	560	5.32	9.77
-15	5	987	3366	848	1.57	5.35	629	5.89	12.48
-10	14	1220	4162	1049	1.77	6.06	687	6.40	15.51
-5	23	1482	5057	1275	2.02	6.88	735	6.83	18.97

Model

SCE15CNLX

Configuration 3

Sales code:

104H7578

Configuration

Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
LRA (locked rotor amps / 4s/ U(N))	39.66 A
RLA (rated load amps / 1s/ U(N))	7.7 A
Cut in current (U(N))	39.66 A

Ambient/ machine room temperatures minimum /maximum

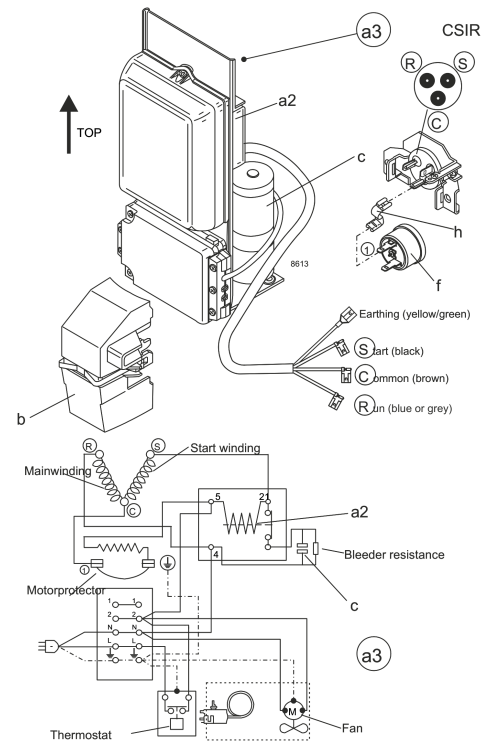
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components (protector + ~holder + cover: pre assembled)

a3 SC starter kit (550mm) 117-7802

h protector holder 117U0439

f ext. protector (T1101) 117U3218

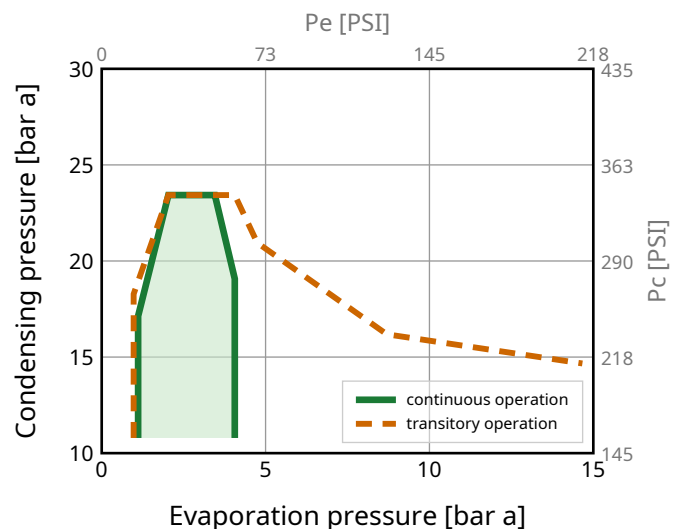
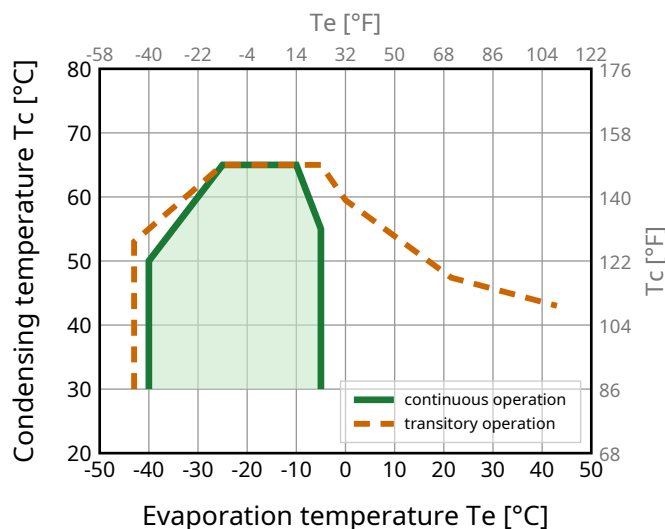
b plastic cover + clamp 117U1021

Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

c start capacitor (280µF, 6.3mm) 117U5350

Operation Pressure Range



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Configuration 3

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Standard Conditions

R290, 115 V/60 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	802	2736	690	1.51	5.14	533	6.21	8.14	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	581	1984	500	1.16	3.95	503	6.00	7.29	CECOMAF LBP
-35 -31	40 104	20 68	40 104	402	1372	346	1.12	3.84	357	4.97	4.61	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	666	2274	573	1.27	4.33	525	6.12	9.25	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	915	3123	787	1.81	6.18	506	5.94	9.30	AHAM LBP
-35 -31	45 113	32 89.6	45 113	346	1182	298	1.00	3.43	345	4.91	3.90	opt LBP

Performance Tables

R290, 115 V/60 Hz, CSIR, fan 3m/s

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

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-35	-31	346	1182	298	1.00	3.43	345	4.91	3.90
-30	-22	527	1797	453	1.24	4.23	425	5.42	5.95
-25	-13	718	2450	617	1.45	4.95	495	5.88	8.14
-20	-4	926	3160	797	1.67	5.69	556	6.30	10.54
-15	5	1157	3949	995	1.91	6.50	607	6.68	13.22
-10	14	1417	4834	1219	2.18	7.44	650	7.00	16.27
-5	23	1711	5838	1471	2.50	8.53	684	7.28	19.76

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

-40	-40	49	167	42	0.28	0.96	174	3.90	0.61
-35	-31	225	767	193	0.76	2.59	296	4.66	2.80
-30	-22	400	1366	344	0.99	3.37	406	5.36	5.00
-25	-13	581	1984	500	1.16	3.95	503	6.00	7.29
-20	-4	774	2639	665	1.32	4.49	588	6.59	9.74
-15	5	983	3353	845	1.49	5.08	660	7.11	12.43
-10	14	1215	4144	1045	1.68	5.74	722	7.57	15.45
-5	23	1475	5033	1269	1.91	6.52	772	7.97	18.88