

Model
NLE11CNLT

Sales code:
105H6109

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	12.20 kg / 26.90lbs
Displacement	11.15 cm³ / 0.68cu.in
Compressors on pallet	80



General - Configurations With NLE11CNLT

-	Conf. 1	Conf. 2	Conf. 3
Motor configuration	CSIR	eRSIR	eRSCR
Power supply (nominal)	208-230 V/60 Hz	208-230 V/60 Hz	208-230 V/60 Hz
Number of phases	1	1	1
Voltage range	187-253 V	187-253 V	187-253 V
Approvals	UL, CB	UL, CB	UL, CB
Starting torque	HST	LST	LST
Refrigerant	R290	R290	R290
Application	LBP	LBP	LBP
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

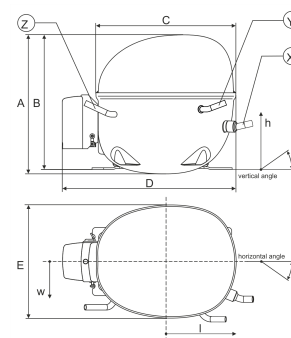
Oil type	POE	Winding resistance main	5.06 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.02 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	135 °C
Free gas volume comp.	2,360 cm3 / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

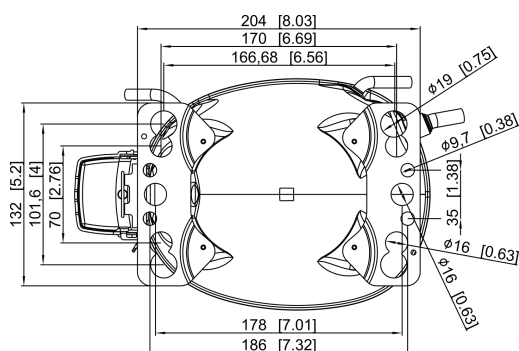
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)



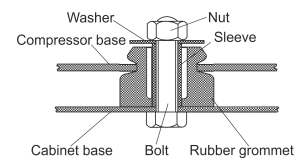
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-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

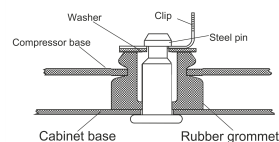


Dimensions in mm [in]

Bolt joint



Snap-on



	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

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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	187-253 V
Starting torque	HST
Approvals	UL, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	60 µF
LRA (locked rotor amps / 4s/ U(N))	15.37 A
RLA (rated load amps / 1s/ U(N))	2.85 A
Cut in current (U(N))	15.37 A

Ambient/ machine room temperatures minimum /maximum

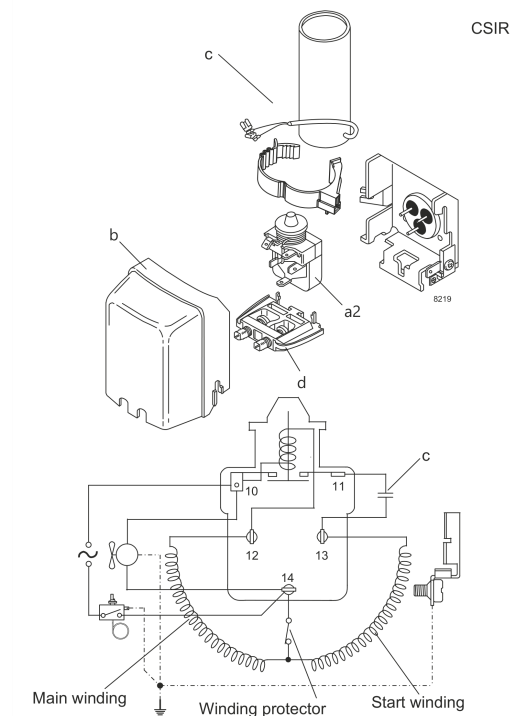
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

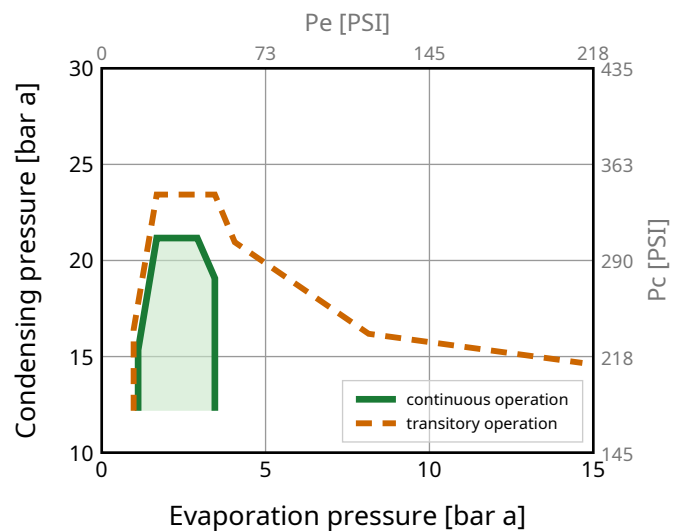
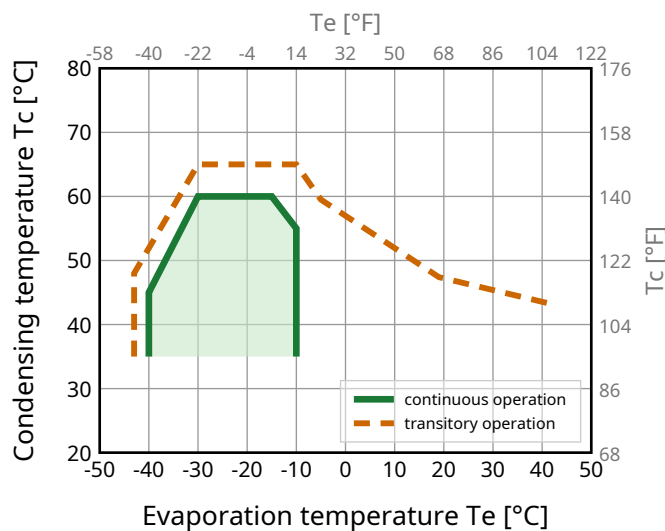
a2 relay 117U7005

c start capacitor (60µF) 117U5014

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model

NLE11CNLT

Configuration 1

Sales code:

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Standard Conditions

R290, 220 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	672	2292	578	1.66	5.66	405	2.32	6.82	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	499	1704	429	1.28	4.38	389	2.26	6.26	CECOMAF LBP
-35 -31	40 104	20 68	40 104	383	1306	329	1.32	4.49	291	1.93	4.39	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	548	1869	471	1.38	4.71	397	2.29	7.60	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	732	2497	629	1.92	6.55	381	2.23	7.43	AHAM LBP
-35 -31	45 113	32 89.6	45 113	369	1258	317	1.25	4.28	294	1.95	4.16	opt LBP

Performance Tables

R290, 220 V/60 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]
-40	-40	323	1101	278	1.27	4.33	254	1.83	3.63
-35	-31	369	1258	317	1.25	4.28	294	1.95	4.16
-30	-22	460	1570	396	1.37	4.69	335	2.08	5.20
-25	-13	588	2007	506	1.56	5.34	376	2.22	6.67
-20	-4	744	2538	640	1.78	6.07	418	2.37	8.46
-15	5	918	3131	789	1.99	6.80	460	2.53	10.48
-10	14	1101	3757	947	2.19	7.47	503	2.71	12.64

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

-40	-40	332	1133	286	1.33	4.55	249	1.80	4.13
-35	-31	340	1159	292	1.16	3.94	294	1.93	4.23
-30	-22	399	1360	343	1.17	3.99	341	2.08	4.98
-25	-13	499	1704	429	1.28	4.38	389	2.26	6.26
-20	-4	633	2160	545	1.44	4.92	439	2.44	7.97
-15	5	791	2699	680	1.61	5.50	491	2.65	10.01
-10	14	964	3289	829	1.77	6.04	545	2.87	12.26

Model

NLE11CNLT

Configuration 2

Sales code:

105H6109

Configuration

Motor configuration	eRSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	187-253 V
Starting torque	LST
Approvals	UL, CB
Starting device type	e-PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	15.37 A
RLA (rated load amps / 1s/ U(N))	2.85 A
Cut in current (U(N))	15.37 A

Ambient/ machine room temperatures minimum /maximum

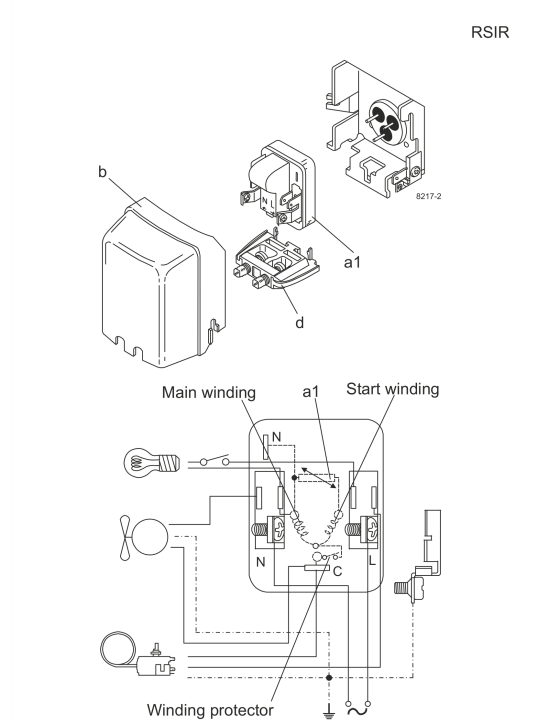
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



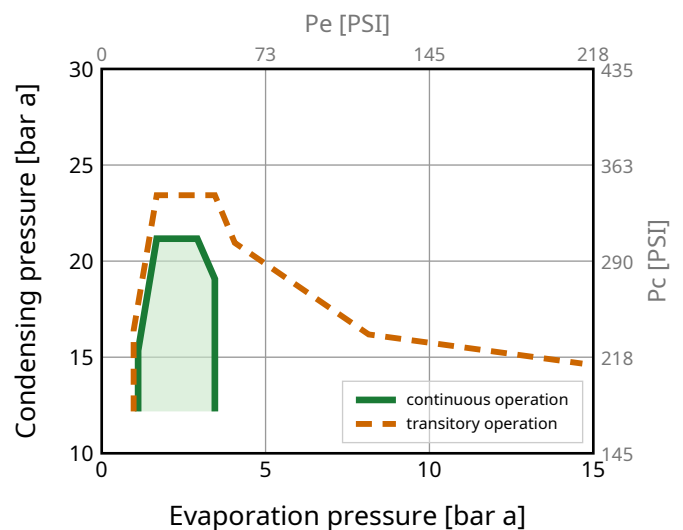
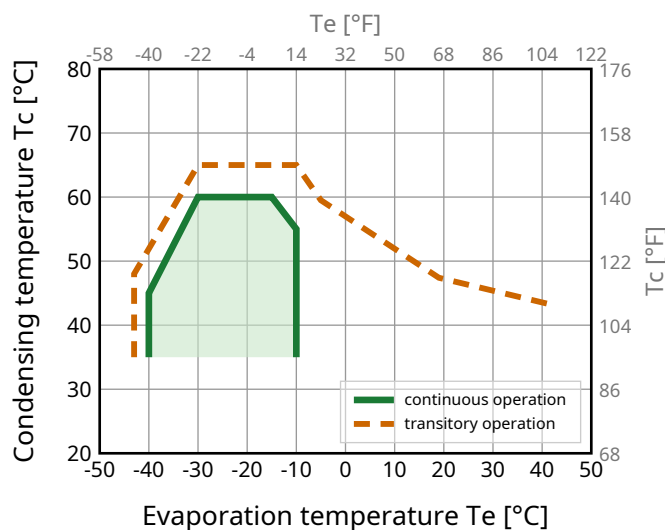
Components

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

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model

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Configuration 2

Sales code:

105H6109

Standard Conditions

R290, 220 V/60 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	672	2292	578	1.66	5.66	405	2.32	6.82	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	499	1704	429	1.28	4.38	389	2.26	6.26	CECOMAF LBP
-35 -31	40 104	20 68	40 104	383	1306	329	1.32	4.49	291	1.93	4.39	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	548	1869	471	1.38	4.71	397	2.29	7.60	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	732	2497	629	1.92	6.55	381	2.23	7.43	AHAM LBP
-35 -31	45 113	32 89.6	45 113	369	1258	317	1.25	4.28	294	1.95	4.16	opt LBP

Performance Tables

R290, 220 V/60 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]
-40	-40	323	1101	278	1.27	4.33	254	1.83	3.63
-35	-31	369	1258	317	1.25	4.28	294	1.95	4.16
-30	-22	460	1570	396	1.37	4.69	335	2.08	5.20
-25	-13	588	2007	506	1.56	5.34	376	2.22	6.67
-20	-4	744	2538	640	1.78	6.07	418	2.37	8.46
-15	5	918	3131	789	1.99	6.80	460	2.53	10.48
-10	14	1101	3757	947	2.19	7.47	503	2.71	12.64

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

-40	-40	332	1133	286	1.33	4.55	249	1.80	4.13
-35	-31	340	1159	292	1.16	3.94	294	1.93	4.23
-30	-22	399	1360	343	1.17	3.99	341	2.08	4.98
-25	-13	499	1704	429	1.28	4.38	389	2.26	6.26
-20	-4	633	2160	545	1.44	4.92	439	2.44	7.97
-15	5	791	2699	680	1.61	5.50	491	2.65	10.01
-10	14	964	3289	829	1.77	6.04	545	2.87	12.26

Model

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Configuration 3

Sales code:

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Configuration

Motor configuration	eRSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	187-253 V
Starting torque	LST
Approvals	UL, CB
Starting device type	e-PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	15.37 A
RLA (rated load amps / 1s/ U(N))	2.85 A
Cut in current (U(N))	15.37 A

Ambient/ machine room temperatures minimum /maximum

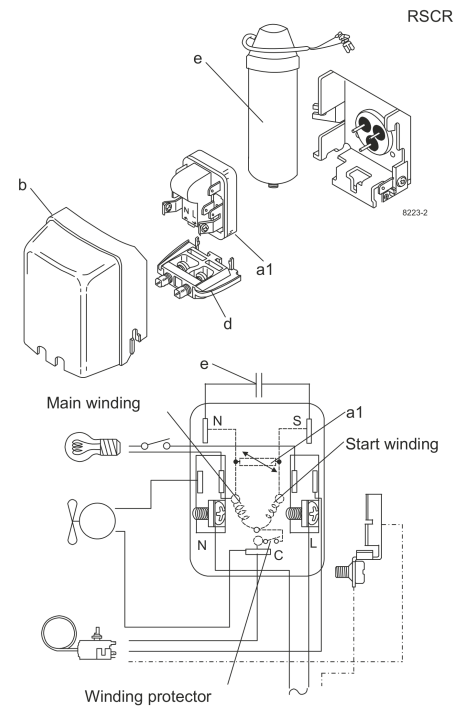
Ambient temperature range: 10 - 43°C / 50 - 109°F

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) 117-7165

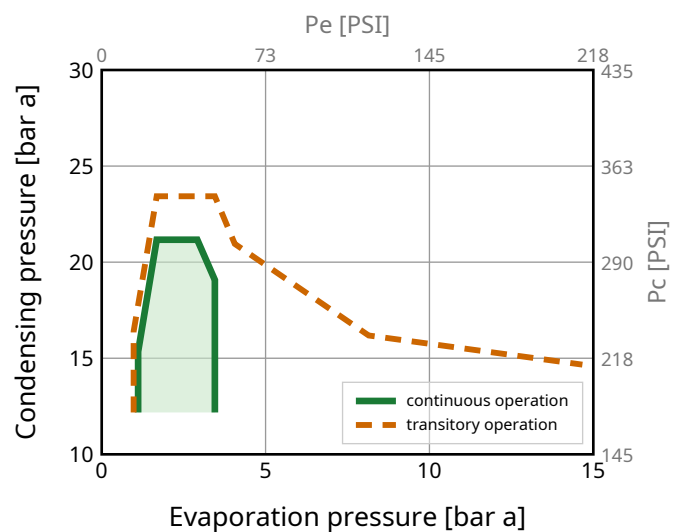
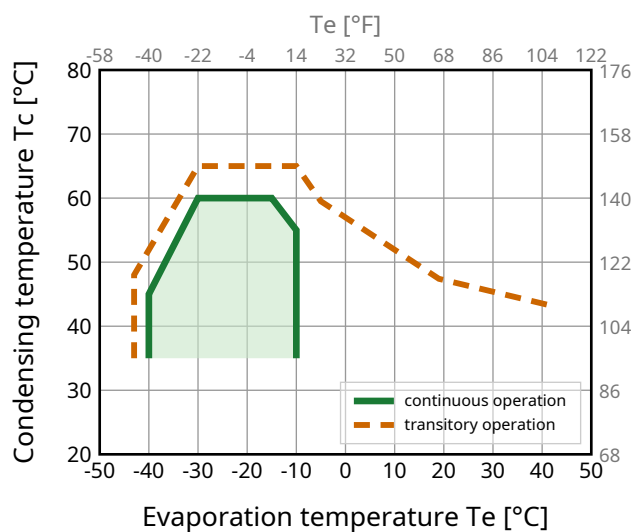
b plastic cover 103N2011

d cord relief 103N1010

bracket for run capacitor 117-0300

screw M4x8mm 117-0301

Operation Pressure Range



Model

NLE11CNLT

Configuration 3

Sales code:

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Standard Conditions

R290, 220 V/60 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	677	2310	582	1.77	6.05	382	1.86	6.88	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	503	1717	433	1.37	4.67	367	1.80	6.31	CECOMAF LBP
-35 -31	40 104	20 68	40 104	383	1308	330	1.40	4.76	275	1.44	4.40	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	551	1880	474	1.47	5.02	374	1.83	7.65	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	732	2498	630	2.04	6.96	359	1.77	7.44	AHAM LBP
-35 -31	45 113	32 89.6	45 113	374	1276	322	1.34	4.57	279	1.46	4.21	opt LBP

Performance Tables

R290, 220 V/60 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]
-40	-40	339	1156	291	1.39	4.74	244	1.33	3.81
-35	-31	374	1276	322	1.34	4.57	279	1.46	4.21
-30	-22	461	1574	397	1.46	4.98	316	1.60	5.21
-25	-13	590	2012	507	1.66	5.68	354	1.75	6.68
-20	-4	748	2553	643	1.90	6.49	394	1.91	8.51
-15	5	926	3158	796	2.13	7.28	434	2.08	10.57
-10	14	1111	3790	955	2.34	7.99	474	2.26	12.76

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

-40	-40	354	1207	304	1.46	4.98	242	1.33	4.39
-35	-31	349	1192	300	1.24	4.23	282	1.47	4.35
-30	-22	403	1374	346	1.25	4.25	323	1.63	5.03
-25	-13	503	1717	433	1.37	4.67	367	1.80	6.31
-20	-4	639	2182	550	1.55	5.28	413	1.99	8.05
-15	5	800	2731	688	1.74	5.92	461	2.20	10.12
-10	14	976	3328	839	1.91	6.51	511	2.42	12.41