Model
NLE10CNT

Sales code:
105H6179

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**11.80 kg / 26.01lbs**
Displacement	**10.09 cm3 / 0.62cu.in**
Compressors on pallet	**80**

General – Configurations With NLE10CNT

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Motor configuration	CSIR	CSIR	eRSIR	eRSCR	eRSCR
Power supply (nominal)	208-230 V/60 Hz	220-230 V/50 Hz	220-230 V/50 Hz	208-230 V/60 Hz	220-230 V/50 Hz
Number of phases	1	1	1	1	1
Voltage range	187-253 V	187-242 V	187-242 V	187-253 V	187-242 V
Approvals	UL, CB, CCC	UL, CB, CCC	UL, CB	UL, CB	UL, CB
Starting torque	HST	HST	LST	LST	LST
Refrigerant	R290	R290	R290	R290	R290
Application	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK	OK

Application Notes

- Important ! CSIR configuration uses different relays for 50 Hz and 60 Hz. Check accessories table.
- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
NLE10CNT

Sales code:
105H6179

Compressor Design

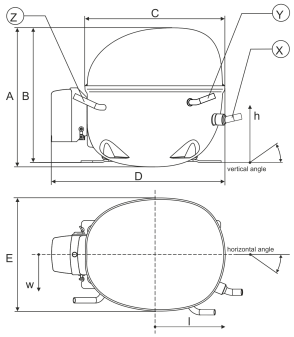
Oil type	**POE**	Winding resistance main	**4.47 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**18.69 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**120°C / 248°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

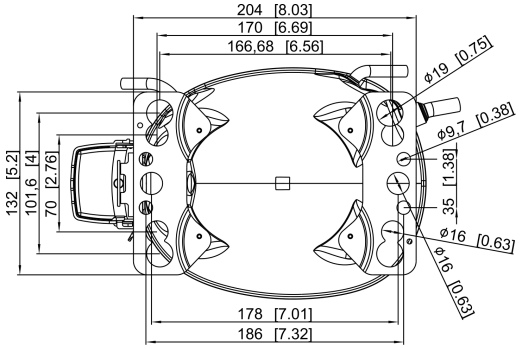
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



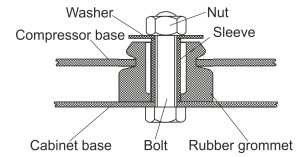
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in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

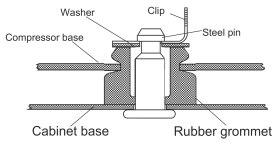


Dimensions in mm [in]

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
NLE10CNT Configuration 1

Sales code:
105H6179

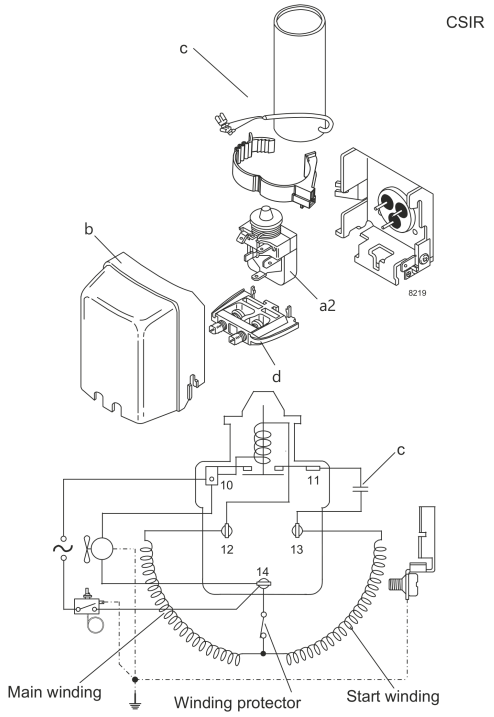
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-253 V**
Starting torque	**HST**
Approvals	**UL, CB, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**60 µF**
LRA (locked rotor amps / 4s/ U(N))	**17.1 A**
RLA (rated load amps / 1s/ U(N))	**3.4 A**
Cut in current (U(N))	**17.1 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
fan 3m/s

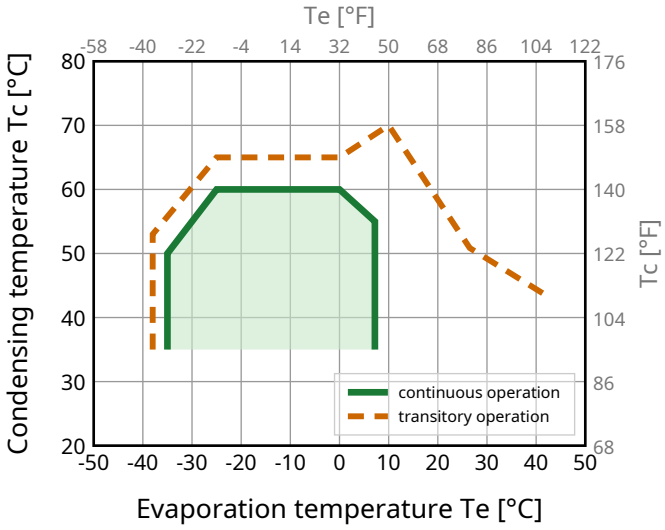
Electrical Accessories / Wiring Diagram

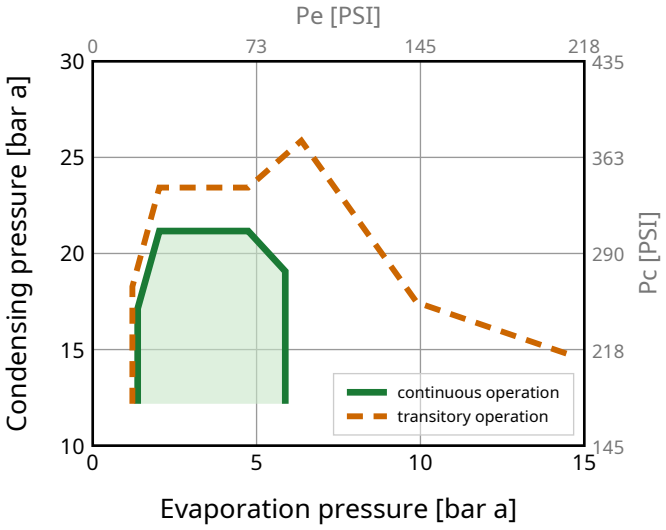


View full size

Components
a2 current relay 117U7050
c start capacitor (60µF) 117U5014
b plastic cover 103N2011
d cord relief 103N1010

Operation Pressure Range





Model
NLE10CNT Configuration 1

Sales code:
105H6179

Standard Conditions

R290, 230 V/60 Hz, CSIR, fan 3m/s

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	**609**	2079	524	**1.64**	5.59	372	2.36	6.19	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**452**	1542	389	**1.27**	4.32	357	2.31	5.67	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**347**	1183	298	**1.29**	4.40	269	2.06	3.98	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1078**	3677	927	**2.10**	7.17	513	2.86	12.34	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**860**	2934	740	**1.76**	6.00	489	2.77	10.94	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**948**	3236	816	**2.12**	7.23	448	2.61	11.67	**EN12900 MBP**

Performance Tables

R290, 230 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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**330**	1126	284	**1.21**	4.14	272	2.06	3.72
-30	-22	**424**	1446	364	**1.38**	4.70	308	2.16	4.79
-20	-4	**665**	2268	572	**1.75**	5.97	380	2.38	7.56
-10	14	**986**	3364	848	**2.20**	7.52	448	2.61	11.32
0	32	**1397**	4767	1202	**2.77**	9.45	504	2.82	16.25
7.2	45	**1755**	5988	1509	**3.28**	11.19	535	2.95	20.64

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

-35	-31	**258**	880	222	**0.96**	3.29	268	2.03	3.21
-30	-22	**348**	1187	299	**1.12**	3.81	312	2.16	4.35
-20	-4	**571**	1949	491	**1.42**	4.85	402	2.46	7.19
-10	14	**860**	2934	740	**1.76**	6.00	489	2.77	10.94
0	32	**1225**	4179	1053	**2.17**	7.39	566	3.06	15.79
7.2	45	**1540**	5256	1325	**2.52**	8.59	612	3.25	20.12

Model
NLE10CNT Configuration 2

Sales code:
105H6179

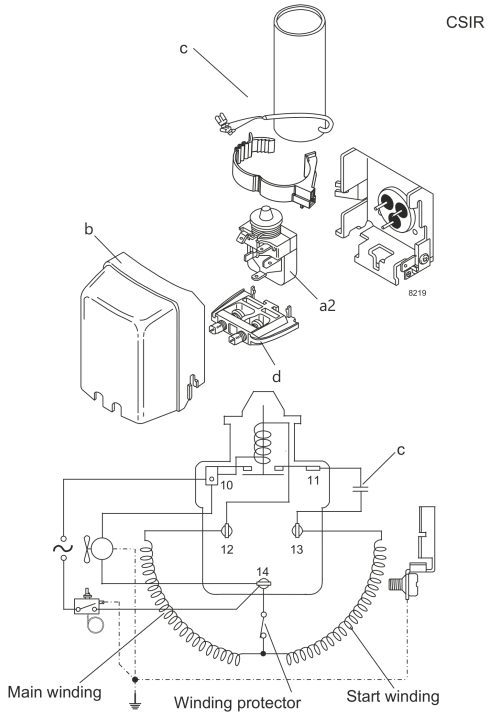
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-230 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-242 V**
Starting torque	**HST**
Approvals	**UL, CB, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**60 µF**
LRA (locked rotor amps / 4s/ U(N))	**17.1 A**
RLA (rated load amps / 1s/ U(N))	**3.4 A**
Cut in current (U(N))	**17.1 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
fan 3m/s

Electrical Accessories / Wiring Diagram



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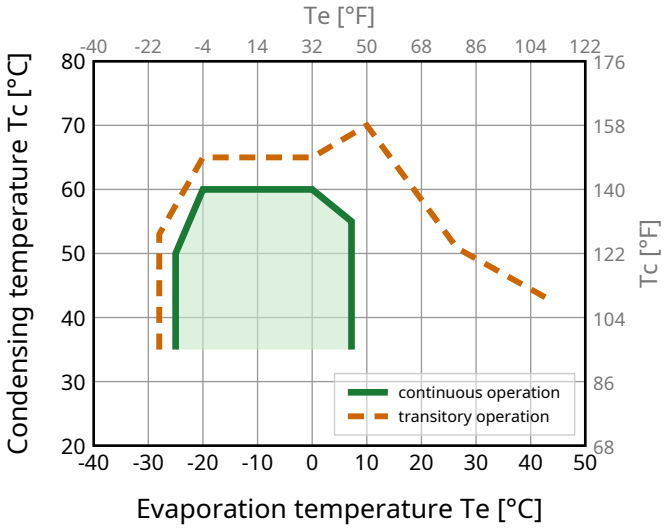
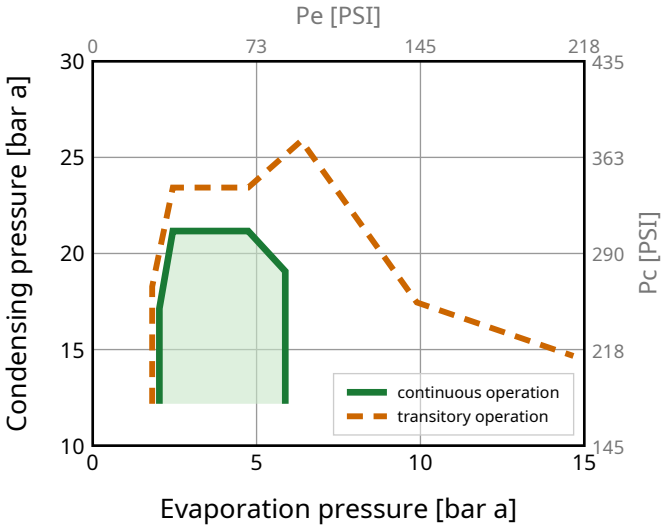
Components
a2 current relay 117U7019
c start capacitor (60µF) 117U5014
b plastic cover 103N2011
d cord relief 103N1010

Operation Pressure Range





Model

NLE10CNT Configuration 2

Sales code:

105H6179

Standard Conditions

R290, 230 V/50 Hz, CSIR, fan 3m/s

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	**512**	1748	441	**1.50**	5.10	343	2.73	5.21	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**380**	1297	327	**1.16**	3.94	329	2.67	4.76	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**292**	995	251	**1.19**	4.05	246	2.40	3.35	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**907**	3095	780	**1.92**	6.56	472	3.25	10.38	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**724**	2470	622	**1.61**	5.49	450	3.16	9.21	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**796**	2718	685	**1.96**	6.68	407	2.97	9.80	**EN12900 MBP**

Performance Tables

R290, 230 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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-25	-13	**449**	1532	386	**1.43**	4.87	314	2.62	5.09
-20	-4	**558**	1904	480	**1.61**	5.49	347	2.74	6.35
-15	5	**684**	2334	588	**1.81**	6.18	378	2.85	7.82
-10	14	**828**	2825	712	**2.04**	6.94	407	2.97	9.51
-5	23	**991**	3382	852	**2.29**	7.80	434	3.08	11.45
0	32	**1174**	4006	1010	**2.57**	8.76	457	3.18	13.65
5	41	**1378**	4703	1185	**2.89**	9.85	478	3.27	16.15
7.2	45	**1475**	5033	1269	**3.04**	10.38	485	3.30	17.35

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

-25	-13	**380**	1297	327	**1.16**	3.94	329	2.67	4.76
-20	-4	**480**	1639	413	**1.30**	4.42	371	2.83	6.05
-15	5	**595**	2029	511	**1.45**	4.93	411	3.00	7.52
-10	14	**724**	2470	622	**1.61**	5.49	450	3.16	9.21
-5	23	**869**	2964	747	**1.79**	6.09	486	3.31	11.12
0	32	**1031**	3517	886	**1.99**	6.77	519	3.46	13.29
5	41	**1210**	4130	1041	**2.21**	7.53	548	3.59	15.75
7.2	45	**1296**	4421	1114	**2.31**	7.90	560	3.65	16.93

Model
NLE10CNT Configuration 3

Sales code:
105H6179

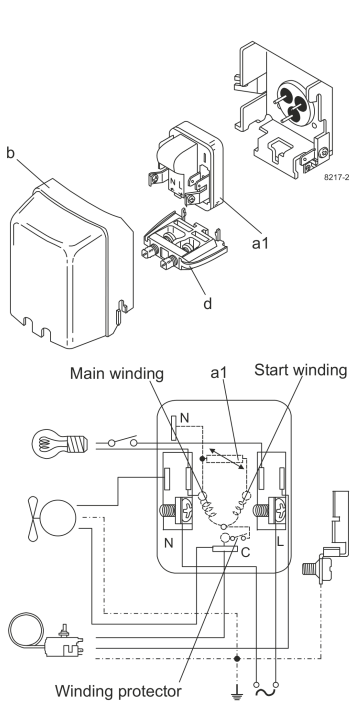
Configuration

Motor configuration	**eRSIR**
Power supply (nominal)	**220-230 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-242 V**
Starting torque	**LST**
Approvals	**UL, CB**
Starting device type	**e-PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**17.1 A**
RLA (rated load amps / 1s/ U(N))	**3.4 A**
Cut in current (U(N))	**17.1 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

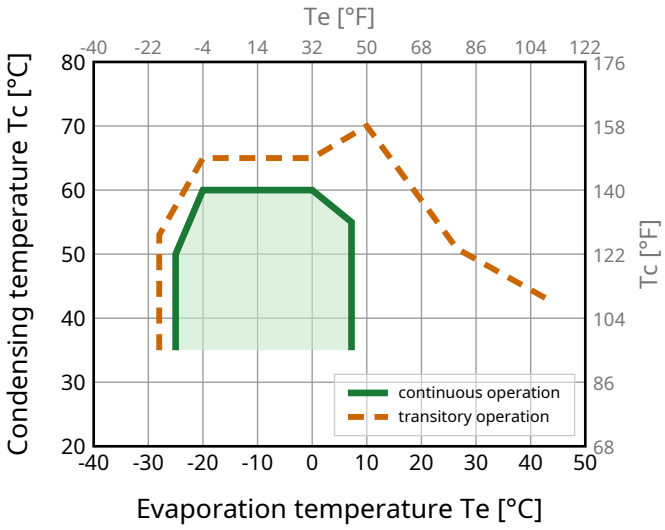
System Cooling
fan 3m/s

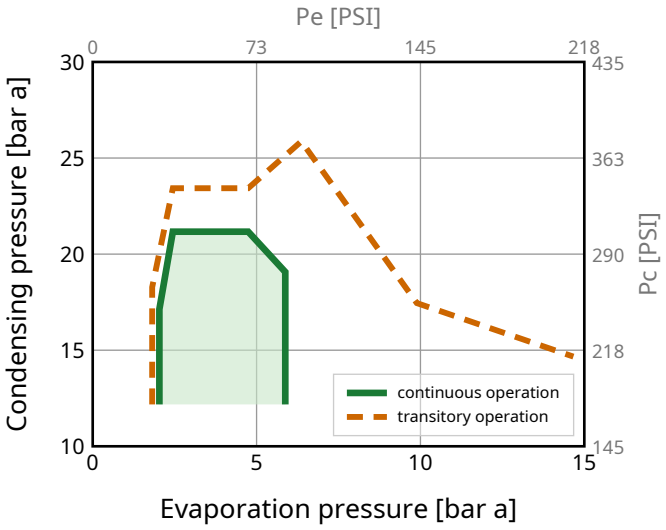
Electrical Accessories / Wiring Diagram



Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
b plastic cover 103N2011
d cord relief 103N1010

Operation Pressure Range





Model
NLE10CNT Configuration 3

Sales code:
105H6179

Standard Conditions

R290, 230 V/50 Hz, eRSIR, fan 3m/s

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	**512**	1748	441	**1.50**	5.10	343	2.73	5.21	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**380**	1297	327	**1.16**	3.94	329	2.67	4.76	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**292**	995	251	**1.19**	4.05	246	2.40	3.35	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**907**	3095	780	**1.92**	6.56	472	3.25	10.38	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**724**	2470	622	**1.61**	5.49	450	3.16	9.21	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**796**	2718	685	**1.96**	6.68	407	2.97	9.80	**EN12900 MBP**

Performance Tables

R290, 230 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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-25	-13	**449**	1532	386	**1.43**	4.87	314	2.62	5.09
-20	-4	**558**	1904	480	**1.61**	5.49	347	2.74	6.35
-15	5	**684**	2334	588	**1.81**	6.18	378	2.85	7.82
-10	14	**828**	2825	712	**2.04**	6.94	407	2.97	9.51
-5	23	**991**	3382	852	**2.29**	7.80	434	3.08	11.45
0	32	**1174**	4006	1010	**2.57**	8.76	457	3.18	13.65
5	41	**1378**	4703	1185	**2.89**	9.85	478	3.27	16.15
7.2	45	**1475**	5033	1269	**3.04**	10.38	485	3.30	17.35

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

-25	-13	**380**	1297	327	**1.16**	3.94	329	2.67	4.76
-20	-4	**480**	1639	413	**1.30**	4.42	371	2.83	6.05
-15	5	**595**	2029	511	**1.45**	4.93	411	3.00	7.52
-10	14	**724**	2470	622	**1.61**	5.49	450	3.16	9.21
-5	23	**869**	2964	747	**1.79**	6.09	486	3.31	11.12
0	32	**1031**	3517	886	**1.99**	6.77	519	3.46	13.29
5	41	**1210**	4130	1041	**2.21**	7.53	548	3.59	15.75
7.2	45	**1296**	4421	1114	**2.31**	7.90	560	3.65	16.93

Model
NLE10CNT Configuration 4

Sales code:
105H6179

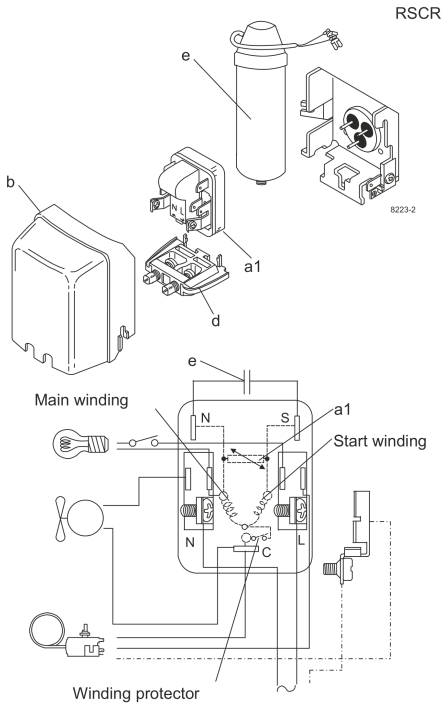
Configuration

Motor configuration	**eRSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
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))	**17.1 A**
RLA (rated load amps / 1s/ U(N))	**3.4 A**
Cut in current (U(N))	**17.1 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

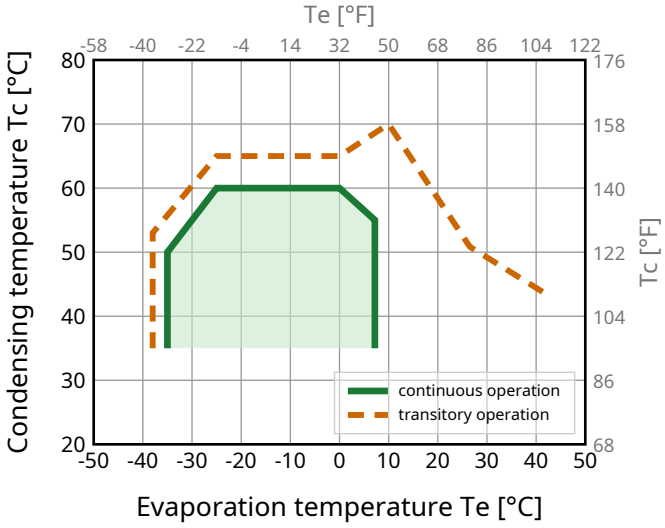
System Cooling
fan 3m/s

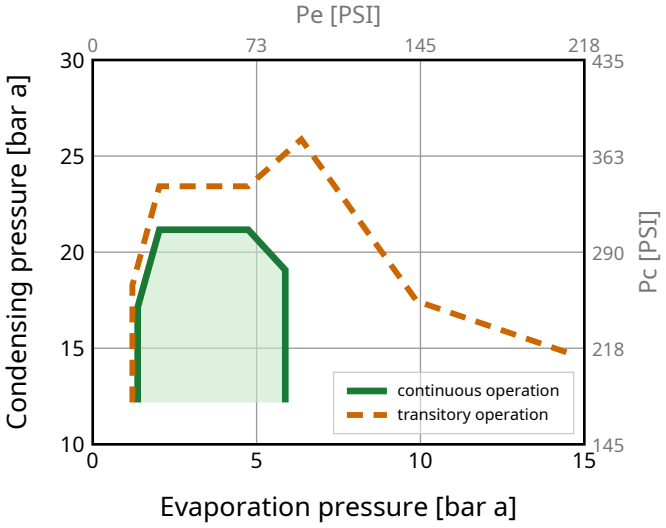
Electrical Accessories / Wiring Diagram



Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2011
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Operation Pressure Range





Model

NLE10CNT Configuration 4

Sales code:

105H6179

Standard Conditions

R290, 230 V/60 Hz, eRSCR, fan 3m/s

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	**618**	2110	532	**1.73**	5.89	358	2.09	6.28	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**459**	1565	394	**1.33**	4.55	344	2.05	5.75	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**352**	1201	303	**1.36**	4.64	259	1.83	4.04	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1094**	3732	941	**2.21**	7.55	494	2.51	12.52	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**873**	2978	751	**1.85**	6.32	471	2.44	11.10	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**962**	3284	828	**2.23**	7.62	431	2.30	11.85	**EN12900 MBP**

Performance Tables

R290, 230 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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**335**	1143	288	**1.28**	4.36	262	1.84	3.78
-30	-22	**430**	1468	370	**1.45**	4.95	296	1.92	4.86
-20	-4	**675**	2302	580	**1.84**	6.29	366	2.11	7.68
-10	14	**1001**	3414	861	**2.32**	7.92	431	2.30	11.49
0	32	**1418**	4839	1220	**2.92**	9.95	486	2.48	16.49
7.2	45	**1781**	6077	1532	**3.45**	11.79	516	2.58	20.95

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

-35	-31	**262**	893	225	**1.01**	3.46	258	1.82	3.26
-30	-22	**353**	1205	304	**1.18**	4.01	301	1.93	4.41
-20	-4	**580**	1978	498	**1.50**	5.10	387	2.17	7.30
-10	14	**873**	2978	751	**1.85**	6.32	471	2.44	11.10
0	32	**1243**	4241	1069	**2.28**	7.78	545	2.69	16.03
7.2	45	**1563**	5334	1345	**2.65**	9.05	589	2.84	20.42

Model
NLE10CNT Configuration 5

Sales code:
105H6179

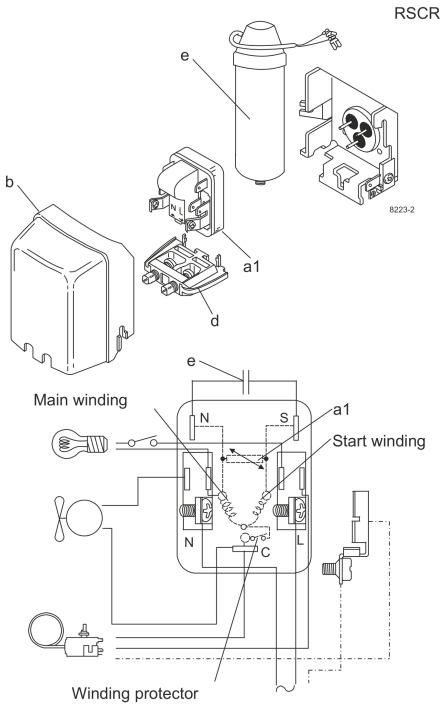
Configuration

Motor configuration	**eRSCR**
Power supply (nominal)	**220-230 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-242 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))	**17.1 A**
RLA (rated load amps / 1s/ U(N))	**3.4 A**
Cut in current (U(N))	**17.1 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

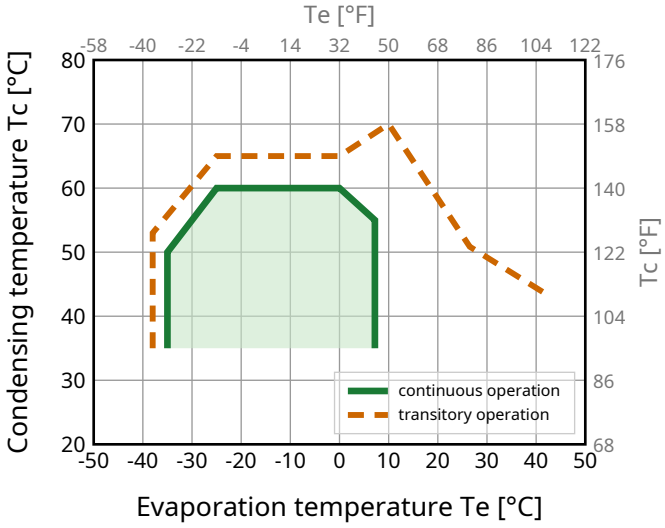
System Cooling
fan 3m/s

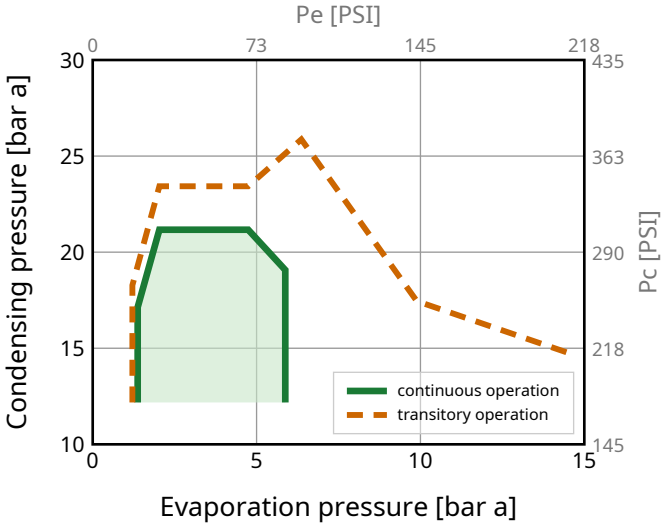
Electrical Accessories / Wiring Diagram



Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2011
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Operation Pressure Range





Model

NLE10CNT Configuration 5

Sales code:

105H6179

Standard Conditions

R290, 230 V/50 Hz, eRSCR, fan 3m/s

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	**521**	1777	448	**1.54**	5.27	337	2.50	5.29	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**386**	1318	332	**1.20**	4.08	323	2.45	4.84	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**296**	1011	255	**1.24**	4.21	240	2.20	3.40	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**923**	3148	793	**1.99**	6.79	464	2.98	10.56	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**736**	2512	633	**1.66**	5.67	443	2.90	9.36	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**808**	2758	695	**2.04**	6.97	396	2.72	9.95	**EN12900 MBP**

Performance Tables

R290, 230 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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**282**	964	243	**1.16**	3.96	244	2.21	3.18
-30	-22	**361**	1232	311	**1.31**	4.47	276	2.30	4.08
-20	-4	**566**	1931	487	**1.67**	5.71	338	2.51	6.44
-10	14	**840**	2867	723	**2.12**	7.25	396	2.72	9.65
0	32	**1192**	4068	1025	**2.69**	9.17	443	2.92	13.87
7.2	45	**1498**	5112	1289	**3.19**	10.88	470	3.02	17.63

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

-35	-31	**220**	750	189	**0.93**	3.18	236	2.18	2.74
-30	-22	**297**	1013	255	**1.06**	3.62	280	2.31	3.71
-20	-4	**488**	1667	420	**1.34**	4.57	365	2.60	6.15
-10	14	**736**	2512	633	**1.66**	5.67	443	2.90	9.36
0	32	**1048**	3576	901	**2.06**	7.02	509	3.17	13.52
7.2	45	**1317**	4493	1132	**2.40**	8.20	548	3.34	17.20