

Model
NLE10CN

Sales code:
105H6194

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.90 kg / 24.03lbs
Displacement	10.09 cm³ / 0.62cu.in
Compressors on pallet	80



General - Configurations With NLE10CN

-	Conf. 1	Conf. 2	Conf. 3
Motor configuration	CSIR	RSIR	RSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1	1
Voltage range	103-127 V	103-127 V	103-127 V
Approvals	UL, CCC	UL, CCC	UL, CCC
Starting torque	HST	LST	LST
Refrigerant	R290	R290	R290
Application	LBP+MBP	LBP+MBP	LBP+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

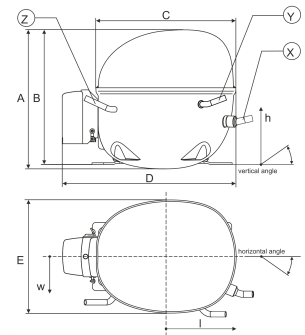
Oil type	32 cSt POE RL32DR	Winding resistance main	1.600 Ohm
Oil viscosity	32cSt	Winding resistance aux	4.40 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	120°C / 248°F
Motor protection	internal		

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](#)



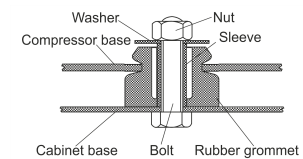
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in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

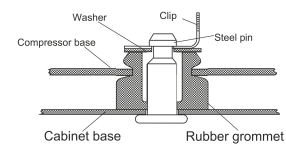


Dimensions in mm [in]

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
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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
LRA (locked rotor amps / 4s/ U(N))	34.53 A
RLA (rated load amps / 1s/ U(N))	5.6 A
Cut in current (U(N))	34.53 A

Ambient/ machine room temperatures minimum /maximum

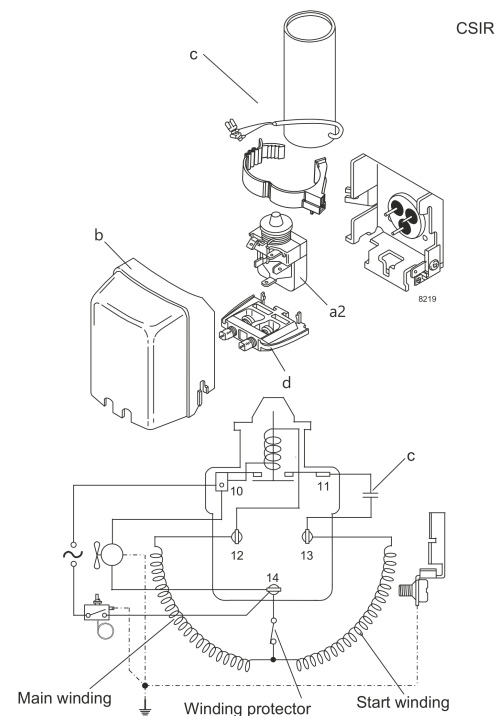
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

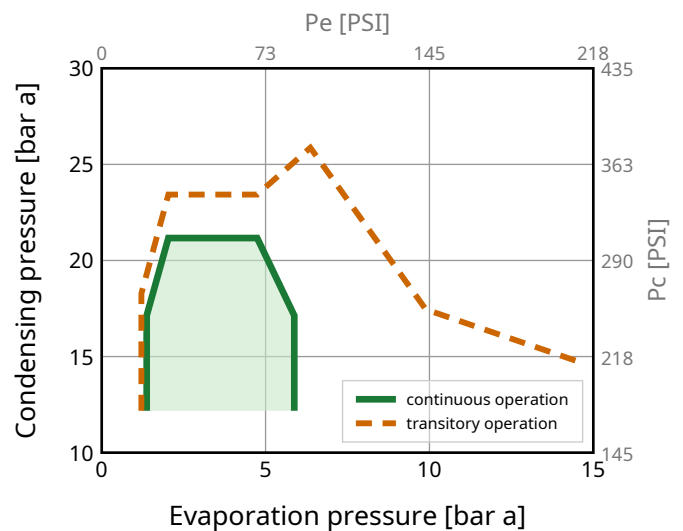
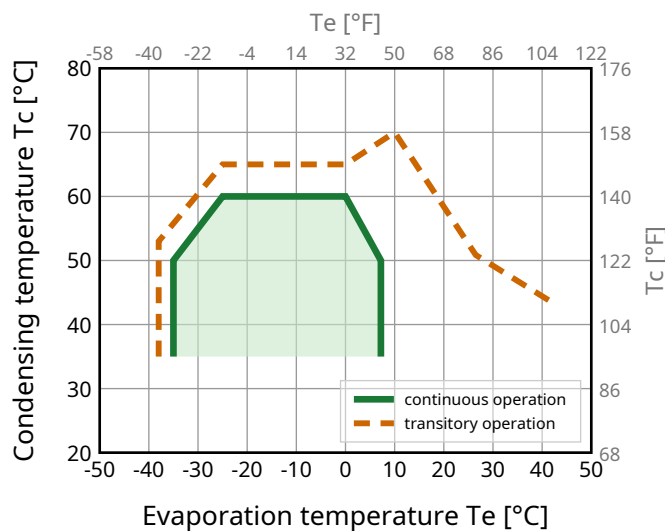
a2 current relay 117U7018

c start capacitor (280µF) 117U5025

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model
NLE10CN

Configuration 1

Sales code:
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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	610	2082	525	1.53	5.22	399	5.18	6.20	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	456	1557	393	1.17	4.00	390	5.13	5.72	CECOMAF LBP
-35 -31	40 104	20 68	40 104	362	1234	311	1.26	4.31	286	4.53	4.15	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	1069	3648	919	2.05	6.99	522	5.95	12.24	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	854	2914	735	1.70	5.80	503	5.84	10.86	CECOMAF MBP
-10 14	45 113	20 68	45 113	935	3192	804	2.04	6.96	459	5.48	11.51	EN12900 MBP

Performance Tables

R290, 115 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]
-35	-31	339	1157	292	1.18	4.01	288	4.51	3.82
-30	-22	429	1462	369	1.31	4.49	326	4.74	4.84
-20	-4	662	2259	569	1.68	5.74	394	5.12	7.53
-10	14	972	3318	836	2.12	7.23	459	5.48	11.17
0	32	1364	4656	1173	2.58	8.81	529	5.87	15.87
7.2	45	1700	5800	1462	2.90	9.89	586	6.20	20.00

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

-35	-31	282	961	242	0.93	3.16	304	4.62	3.51
-30	-22	360	1230	310	1.03	3.52	349	4.88	4.50
-20	-4	570	1946	490	1.33	4.54	428	5.37	7.18
-10	14	854	2914	735	1.70	5.80	503	5.84	10.86
0	32	1216	4151	1046	2.10	7.16	580	6.36	15.69
7.2	45	1529	5216	1315	2.39	8.14	640	6.80	19.97

Model
NLE10CN

Configuration 2

Sales code:
105H6194

Configuration

Motor configuration	RSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	103-127 V
Starting torque	LST
Approvals	UL, CCC
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	34.53 A
RLA (rated load amps / 1s/ U(N))	5.6 A
Cut in current (U(N))	34.53 A

Ambient/ machine room temperatures minimum /maximum

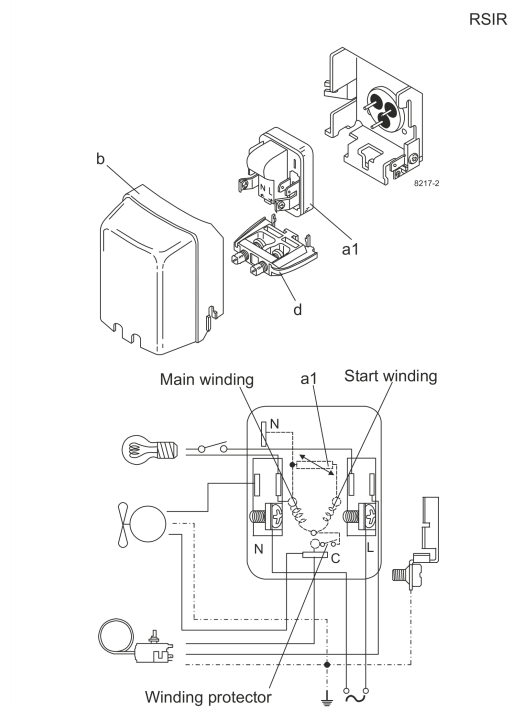
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a1 e-PTC starter (115V, 50hm, 6.3mm, 4.8-cap) 103N0057

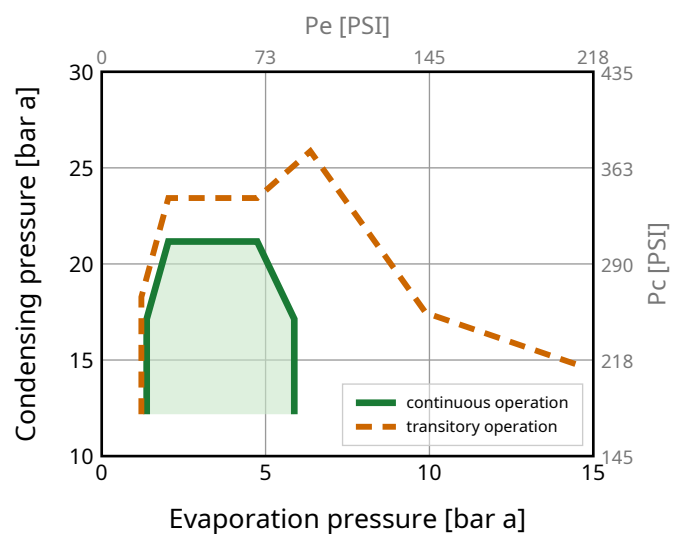
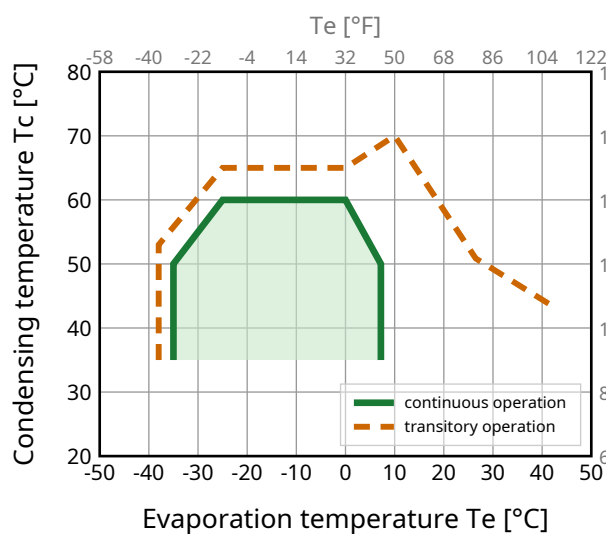
b plastic cover 103N2011

d cord relief 103N1010

Alternative components

a1 e-PTC starter 103N0058

Operation Pressure Range



Model
NLE10CN

Configuration 2

Sales code:
105H6194

Standard Conditions

R290, 115 V/60 Hz, RSIR, 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	610	2082	525	1.53	5.22	399	5.18	6.20	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	456	1557	393	1.17	4.00	390	5.13	5.72	CECOMAF LBP
-35 -31	40 104	20 68	40 104	362	1234	311	1.26	4.31	286	4.53	4.15	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	1069	3648	919	2.05	6.99	522	5.95	12.24	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	854	2914	735	1.70	5.80	503	5.84	10.86	CECOMAF MBP
-10 14	45 113	20 68	45 113	935	3192	804	2.04	6.96	459	5.48	11.51	EN12900 MBP

Performance Tables

R290, 115 V/60 Hz, RSIR, 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	339	1157	292	1.18	4.01	288	4.51	3.82
-30	-22	429	1462	369	1.31	4.49	326	4.74	4.84
-20	-4	662	2259	569	1.68	5.74	394	5.12	7.53
-10	14	972	3318	836	2.12	7.23	459	5.48	11.17
0	32	1364	4656	1173	2.58	8.81	529	5.87	15.87
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pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	282	961	242	0.93	3.16	304	4.62	3.51
-30	-22	360	1230	310	1.03	3.52	349	4.88	4.50
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-10	14	854	2914	735	1.70	5.80	503	5.84	10.86
0	32	1216	4151	1046	2.10	7.16	580	6.36	15.69
7.2	45	1529	5216	1315	2.39	8.14	640	6.80	19.97

Model
NLE10CN

Configuration 3

Sales code:
105H6194

Configuration

Motor configuration	RSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	103-127 V
Starting torque	LST
Approvals	UL, CCC
Starting device type	PTC
Run capacitor	15 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	34.53 A
RLA (rated load amps / 1s/ U(N))	5.6 A
Cut in current (U(N))	34.53 A

Ambient/ machine room temperatures minimum /maximum

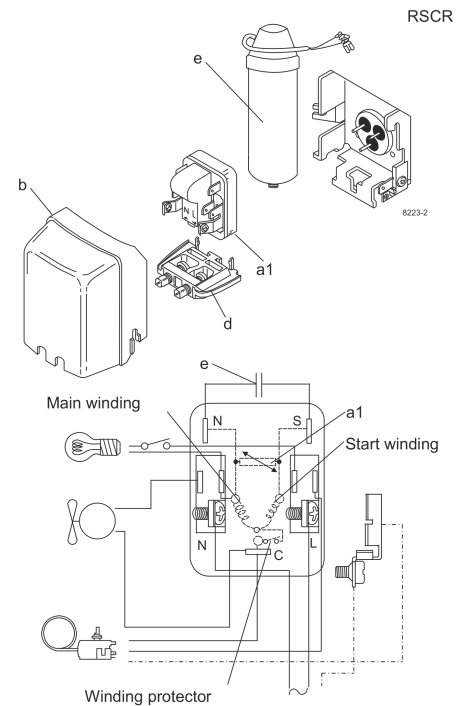
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



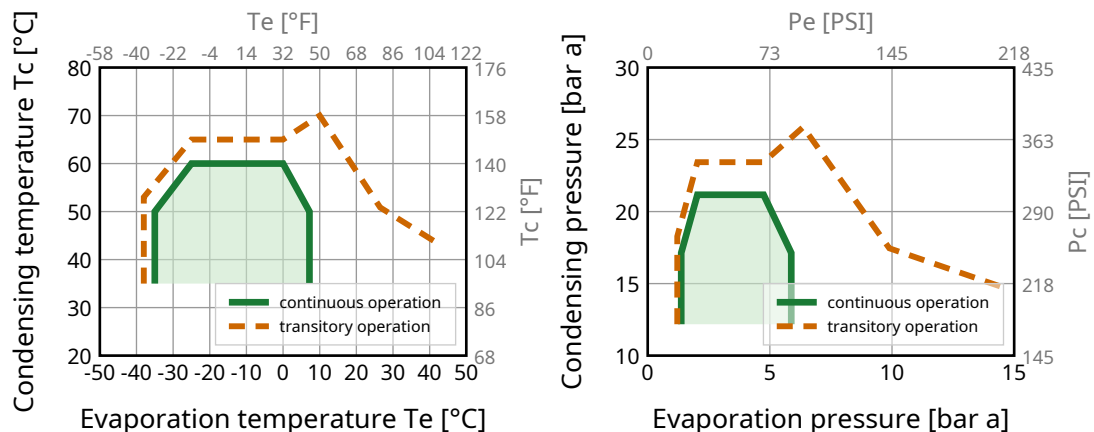
Components

a1 e-PTC starter 103N0058
e run capacitor (15 μ F, 6.3mm) 117-7118
b plastic cover 103N2011
d cord relief 103N1010
 bracket for run capacitor 117-0300
 screw M4x8mm 117-0301

Alternative components

a1 e-PTC starter (115V, 50hm, 6.3mm, 4.8-cap) 103N0057
e run capacitor (15 μ F, 4.8mm) 117-7120
b plastic cover 103N2011
d cord relief 103N1010
 bracket for run capacitor 117-0300
 screw M4x8mm 117-0301

Operation Pressure Range



Model
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Configuration 3

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Standard Conditions

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

pe		pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C]	[°C]	[°C]	[°C]	[°C]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
[°F]	[°F]	[°F]	[°F]	[°F]									
-23.3	54.4	32.2	32.2		620	2116	533	1.68	5.74	368	4.78	6.30	ASHRAE LBP
-10	129.9	90	90										
-25	55	32	55		464	1582	399	1.29	4.40	360	4.74	5.81	CECOMAF LBP
-13	131	89.6	131										
-35	40	20	40		368	1254	316	1.39	4.75	264	4.18	4.22	EN12900 LBP
-31	104	68	104										
-6.7	54.4	35	46.1		1086	3707	934	2.25	7.69	482	5.49	12.44	ASHRAE MBP
20	129.9	95	115										
-10	55	32	55		868	2962	746	1.87	6.38	464	5.39	11.04	CECOMAF MBP
14	131	89.6	131										
-10	45	20	45		951	3244	818	2.24	7.66	424	5.06	11.70	EN12900 MBP
14	113	68	113										

Performance Tables

R290, 115 V/60 Hz, RSCR, 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	345	1176	297	1.29	4.42	266	4.17	3.88
-30	-22	436	1486	375	1.45	4.94	301	4.38	4.92
-20	-4	673	2296	579	1.85	6.31	364	4.73	7.66
-10	14	988	3372	850	2.33	7.96	424	5.06	11.35
0	32	1387	4731	1193	2.84	9.69	488	5.42	16.12
7.2	45	1728	5895	1486	3.19	10.89	541	5.72	20.32

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

-35	-31	286	977	246	1.02	3.47	281	4.27	3.56
-30	-22	366	1249	315	1.14	3.88	322	4.51	4.58
-20	-4	580	1978	498	1.47	5.00	396	4.96	7.29
-10	14	868	2962	746	1.87	6.38	464	5.39	11.04
0	32	1236	4218	1063	2.31	7.88	535	5.87	15.94
7.2	45	1554	5301	1336	2.63	8.96	591	6.28	20.30