

Single Pack NLV10CN 100-240V 50/60Hz PM

Codice Imballo Singolo: **195B4604**

Posizione	Titolo	Codice	Quantità
1	Compressor NLV10CN	105H7003	1
2	Electronic unit NLV	105N4761	1
3	Cover	103N2008	1
4	Bolt joint for one compressor M6 ø16mm	118-1917	1

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Model

Designation	NLV10CN	Sales code:	105H7003
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cST	Displacement	10,09cm³ / 0,62cu.in
Oil quantity	298cm³ / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	10,8kg / 23,8lbs		
Motor protection	2# internal		
Winding resist. ph. to ph.	5,3Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations and Applications with NLV10CN and Controller

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Sales code single pack:	105N4910	105N4960	105N4962	105N4866
Sales code industry pack:	105N4911	105N4961	105N4963	105N4867
Power supply (nominal)	220-240V 50/60Hz	100-240V 50/60Hz	100-240V 50/60Hz	100-240V 50/60Hz
Approvals	VDE,CCC	VDE,UL,CCC,CB	VDE,UL,CCC,CB	CCC,VDE,UL,CB
Refrigerant	R290	R290	R290	R290
Number of phases	1~ AC	1~ AC	1~ AC	1~ AC
Application	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP
Starting torque	HST	HST	HST	HST
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK
System cooling	fan 3m/s	fan 3m/s	fan 3m/s	fan 3m/s
Note	- / -			

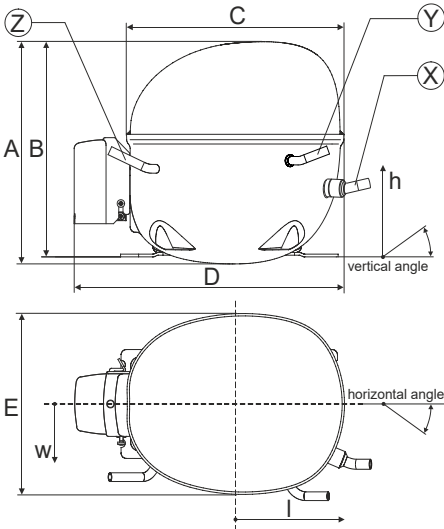
Controller functions

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Protection	Mechanic	Mechanic	Mechanic	Mechanic
Max output power	1000 W	1000 W	1000 W	1000 W
No of relays	2	2	2	8
Hot gas defrost	yes	yes	yes	yes
AEO speed setting	yes	yes	yes	N
Serial com, (Modbus)	SWI	SWI	SWI	RS485
DWI / Frequency input	yes	yes	yes	N
Note			US GFCI-Conformity	

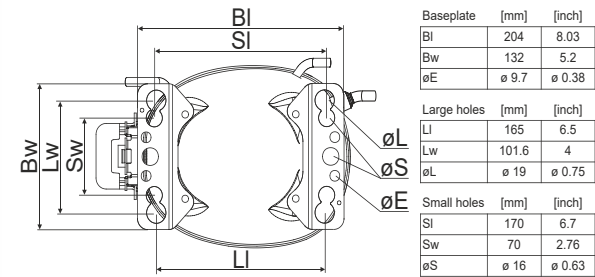
Model		
Designation	NLV10CN	Sales code: 105H7003
Compressor dimensions		

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	252mm / 9,92in
	E Width	166mm / 6,54in

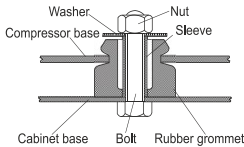
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle	±2° 0°	0°	0°
Vertical angle	±2° 15°	21°	155°
Position l/h/w [mm]	132/69/57	94/102/81	-109/94/72
	[in] 5,2/2,7/2,2	3,7/4/3,2	-4,3/3,7/2,8
Straight tube l.	[mm] 12	12	12
	[in] 0,5	0,5	0,5



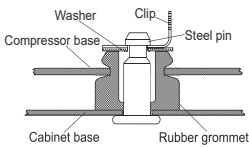
Compressor fixation



Bolt joint



Snap-on



Mounting accessories	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

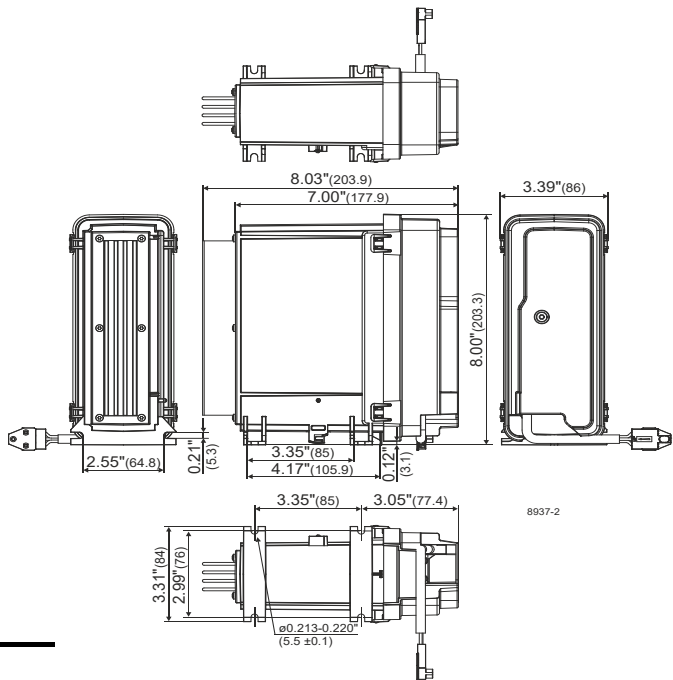
Application notes

- Operation possible until tilted up to 3 degrees
- Provision for PE Grounding is located at the PE Stamp on the compressor

Model				
Designation	NLV10CN	220-240V 50/60Hz	Conf. 1	Sales code: 105H7003
Controller	NLV MP 230V	105N4910		

Sales code single pack:	105N4910 (1 units)
Sales code industry pack:	105N4911 (8 units)
Adaption to compressor:	detached
Protection class:	IP54
Weight:	1.4 kg / 3.08 lbs
Voltage nom.:	220-240V 50/60Hz
Voltage range:	180-270 V
Max, current:	8,4 A (230 V)
LRA (Locked Rotor Amperage):	1,2 A
Cable length:	680 mm
Compressor speed range:	2000-4500 rpm
Housing plastic:	UL94-5VA

Controller dimensions:



QR Code and Hyperlink leads to the [Operating Instructions.](#)

Operation Limits

Suctiongas temperature < +20°C (continous operation)

System cooling

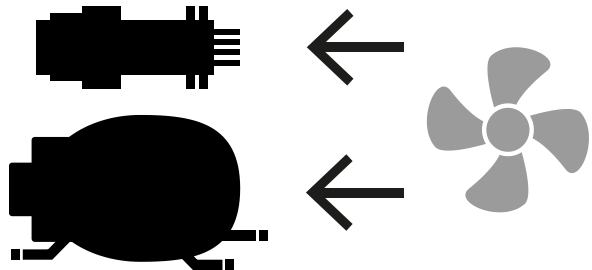
Ambient/ machineroom temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range compressor:	10 - 48°C / 50 - 119°F
Machine room temperature range controller:	10 - 50°C / 50 - 122°F

Compressor and Controller Cooling: Fan cooling 3m/s

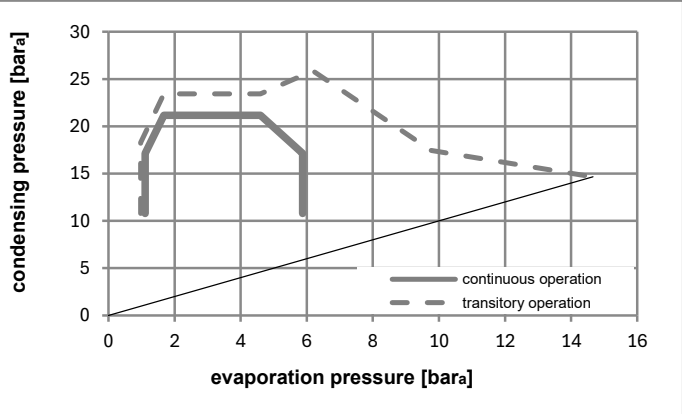
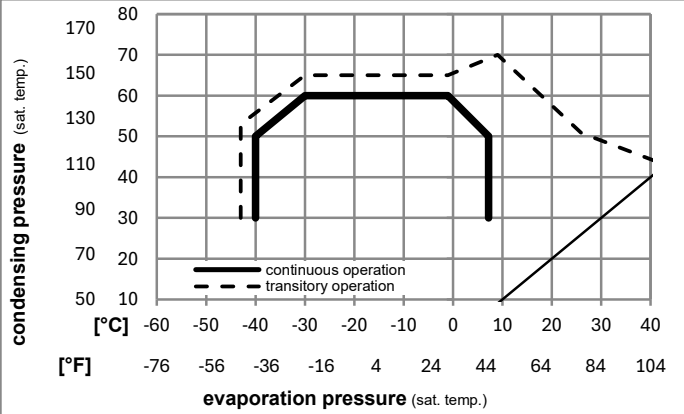
Ensure proper airflow of 3 m/s at both compressor and electronic units.

The airflow for the electronics must be directed to the heat sink.

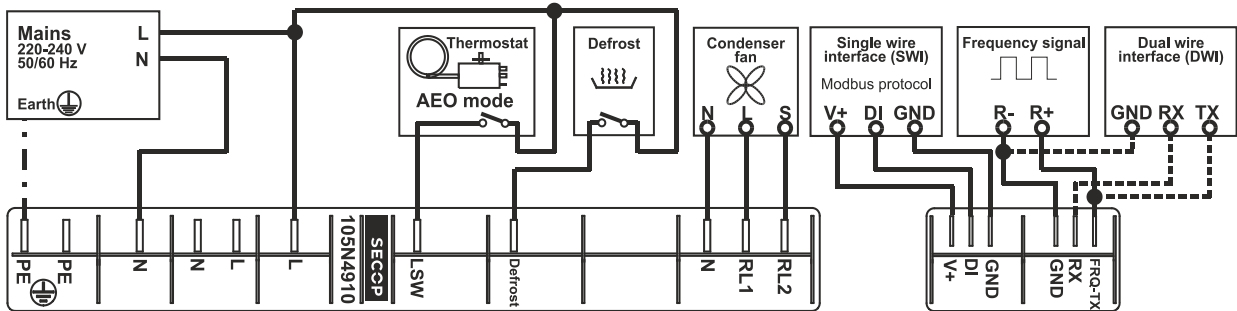
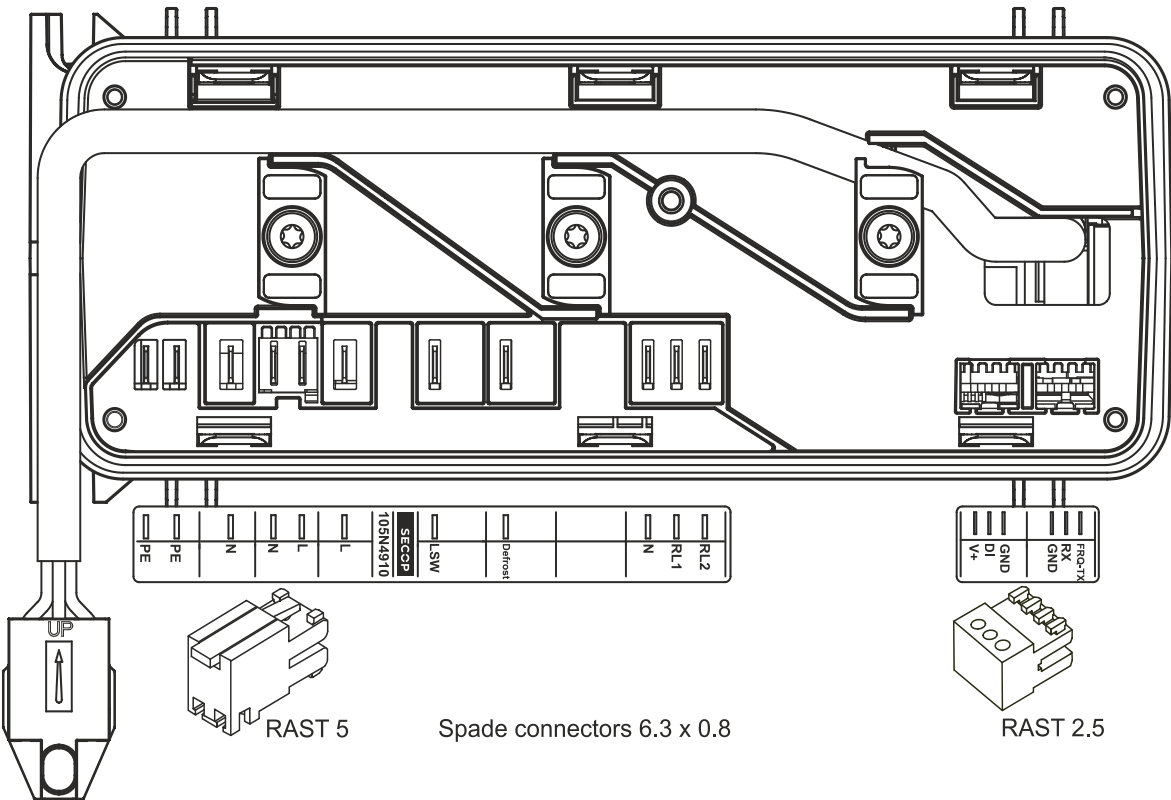


Operation pressure range

R290



Model					
Designation	NLV10CN	220-240V 50/60Hz	Conf. 1	Sales code:	105H7003
Controller	NLV MP 230V				105N4910
<u>Controller connections</u>					



Accessories (Compressor + Controller) - check operation manual for details

103N2008	plastic cover	1 pcs
103N9110	plastic cover (MP of 103N2008)	80 pcs

Model			
Designation	NLV10CN	220-240V 50/60Hz	Conf. 1
Sales code:			105H7003
Controller	NLV MP 230V	105N4910	

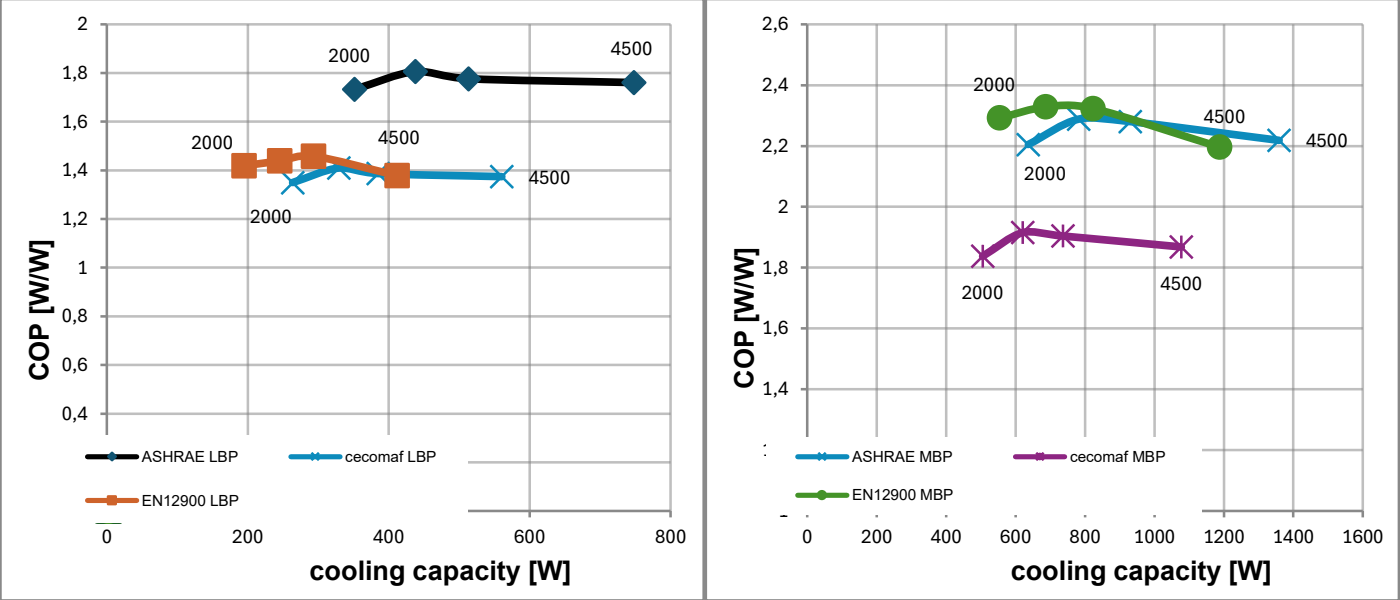
Optimization + standard conditions

R290, 220V, 50Hz, Rpm_N 4500, fan 3m/s

	Evaporating pressure (saturation temperature)										Power consumption			
	Condensing pressure (saturation temperature)											Current consumption		
	Return gas temp.				Ref. mass flow									
	Liquid temp.							P1		I	ṁ			
	Cooling capacity			COP				EER	[W]	[A]		[kg/h]		
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]				
[°C]	-23	54	32	32										
[°F]	-10	130	90	90	747,9	2554	643,7	1,76	6,01	1,52	424,8	2,21	7,57	ASHRAE LBP
[°C]	-25	55	32	55										
[°F]	-13	131	90	131	560,5	1914	482,4	1,37	4,69	1,18	407,9	2,11	6,98	cecomaf LBP
[°C]	-35	40	20	40										
[°F]	-31	104	68	104	412,3	1408	354,9	1,38	4,71	1,19	299,1	1,44	4,71	EN12900 LBP
[°C]	-7	54	35	46										
[°F]	20	130	95	115	1359,1	4641	1169,6	2,22	7,58	1,91	612,6	3,25	15,50	ASHRAE MBP
[°C]	-10	55	32	55										
[°F]	14	131	90	131	1077,4	3680	927,2	1,87	6,38	1,61	576,8	3,06	13,63	cecomaf MBP
[°C]	-10	45	20	45										
[°F]	14	113	68	113	1187,8	4057	1022,3	2,20	7,50	1,89	540,8	2,78	14,58	EN12900 MBP

Standard conditions with different RPM

R290, 220V, 50Hz, Rpm_N 4500, fan 3m/s

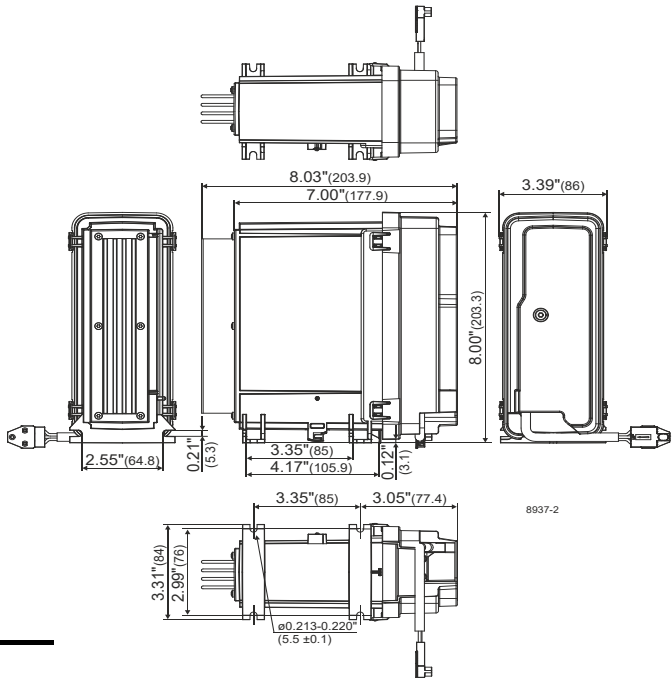


Test conditions:	pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]		pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]
ASHRAE LBP	-23,33	54,44	32,22	32,22	ASHRAE MBP	-6,66	54,44	46,11	35
cecomaf LBP	-25	55	55	32	cecomaf MBP	-10	55	55	32
EN12900 LBP	-35	40	40	20	EN12900 MBP	-10	45	45	20

Model				
Designation	NLV10CN	100-240V 50/60Hz	Conf. 2	Sales code: 105H7003
Controller	NLV MP MV	105N4960		

Sales code single:	105N4960 (1 units)
Sales code industry pack:	105N4961 (8 units)
Adaption to compressor:	detached
Protection class:	IP54
Weight:	1.4 kg / 3.08 lbs
Voltage nom.	100-240V 50/60Hz
Voltage range	90-150/180-270 V
Max, current:	4,2 A (230 V) / 8,4 A (115 V)
LRA (Locked Rotor Amperage):	1,2 A
Cable length:	680 mm
Compressor speed range:	2000-4500 rpm
Housing plastic:	UL94-5VA

Controller dimensions:



QR Code and Hyperlink leads to the [Operating Instructions.](#)

Operation Limits

Suctiongas temperature < +20°C (continous operation)

System cooling

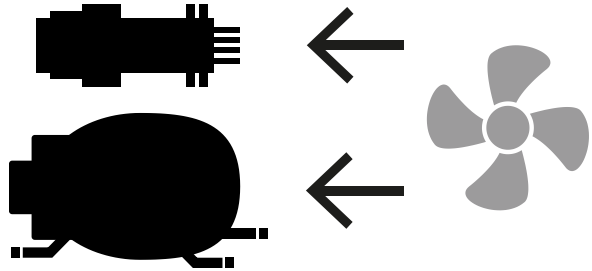
Ambient/ machineroom temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range compressor:	10 - 48°C / 50 - 119°F
Machine room temperature range controller:	10 - 50°C / 50 - 122°F

Compressor and Controller Cooling: Fan cooling 3m/s

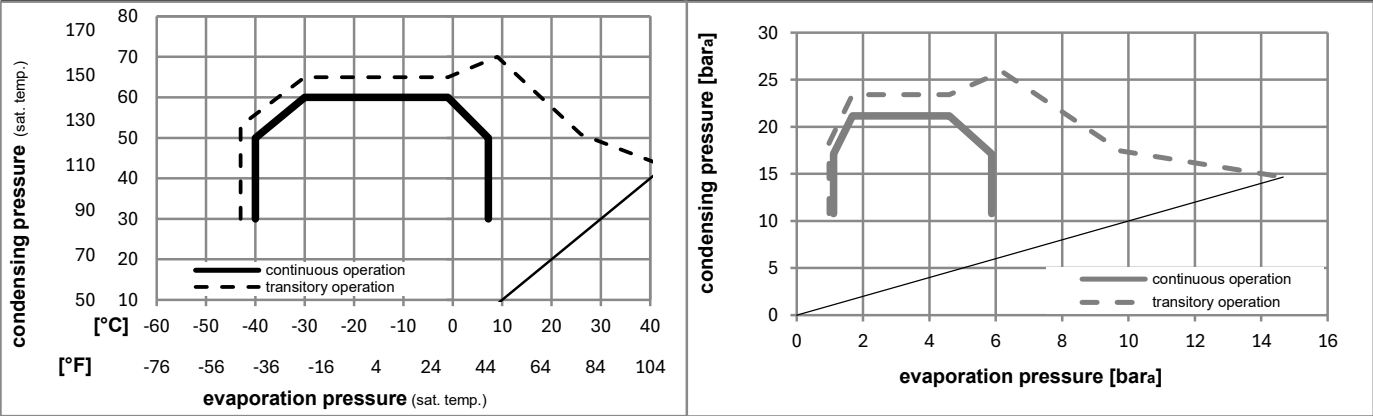
Ensure proper airflow of 3 m/s at both compressor and electronic units.

The airflow for the electronics must be directed to the heat sink.

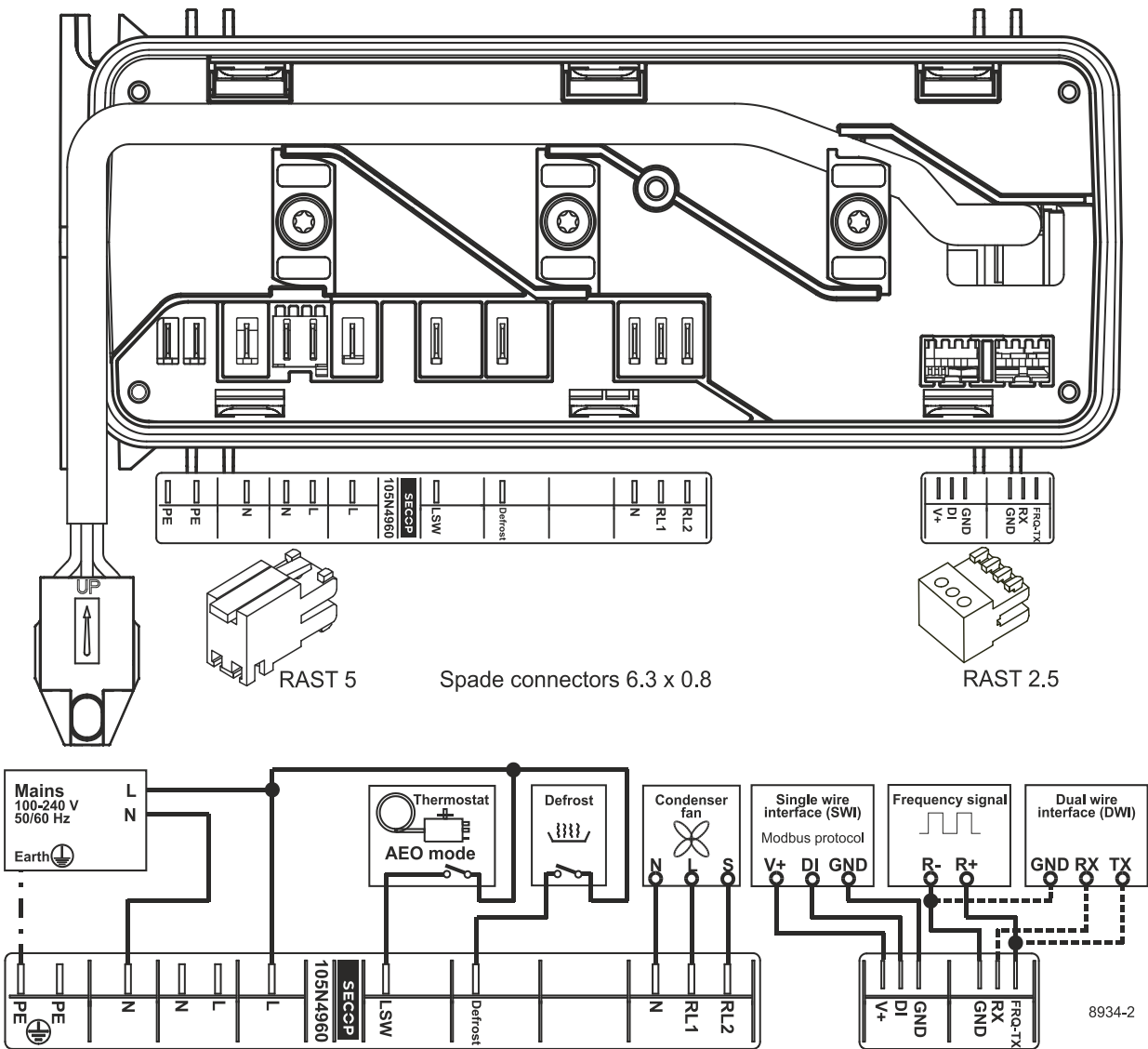


Operation pressure range

R290



Model					
Designation	NLV10CN	100-240V 50/60Hz	Conf. 2	Sales code:	105H7003
Controller	NLV MP MV				105N4960
Controller connections					



Accessories (Compressor + Controller) - check operation manual for details

103N2008	plastic cover	1 pcs
103N9110	plastic cover (MP of 103N2008)	80 pcs

Model			
Designation	NLV10CN	100-240V 50/60Hz	Conf. 2
		Sales code:	105H7003
Controller	NLV MP MV	105N4960	

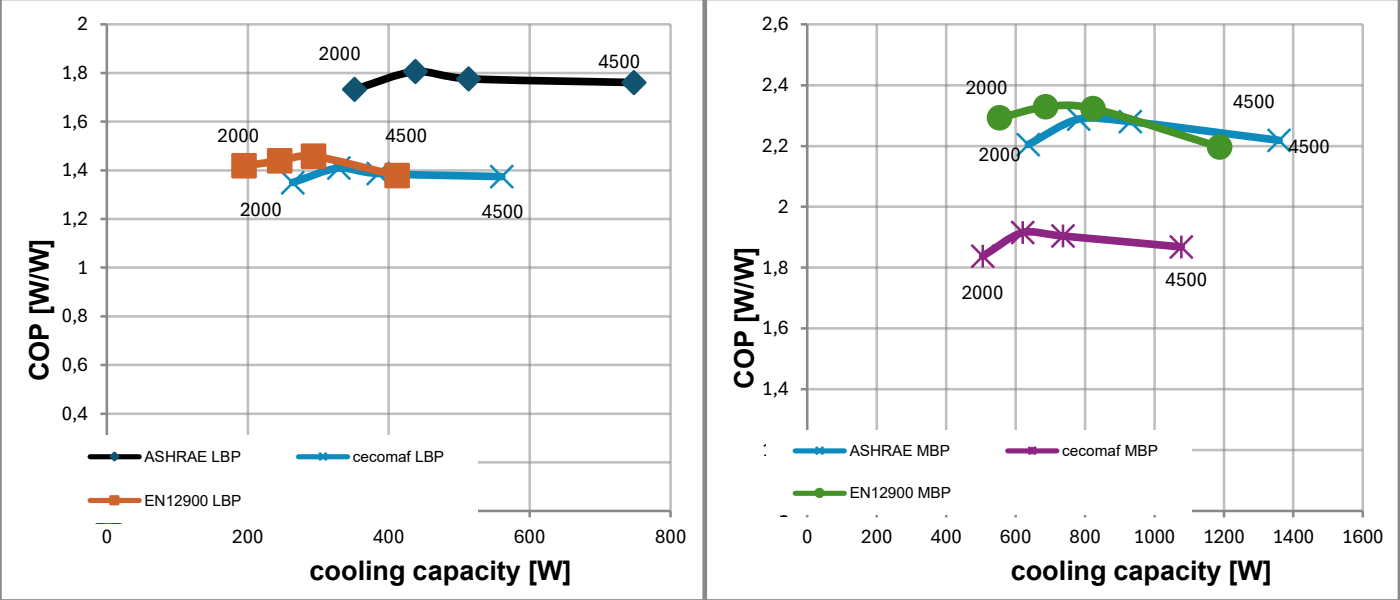
Optimization + standard conditions

R290, 220V, 50Hz, Rpm_N 4500, fan 3m/s

	Evaporating pressure (saturation temperature)										Condensing pressure (saturation temperature)				Power consumption			
											Current consumption							
											Ref. mass flow							
											pe	pc	RGT	Tliq				
				[W]	[Btu/h]	[kcal/h]	COP	EER										
							[W/W]	[Btu/Wh]	[kcal/Wh]			[W]	[A]	[kg/h]				
[°C]	-23	54	32	32	747,9	2554	643,7	1,76	6,01	1,52	424,8	2,21	7,57	ASHRAE LBP				
[°F]	-10	130	90	90														
[°C]	-25	55	32	55	560,5	1914	482,4	1,37	4,69	1,18	407,9	2,11	6,98	cecomaf LBP				
[°F]	-13	131	90	131														
[°C]	-35	40	20	40	412,3	1408	354,9	1,38	4,71	1,19	299,1	1,44	4,71	EN12900 LBP				
[°F]	-31	104	68	104														
[°C]	-7	54	35	46	1359,1	4641	1169,6	2,22	7,58	1,91	612,6	3,25	15,50	ASHRAE MBP				
[°F]	20	130	95	115														
[°C]	-10	55	32	55	1077,4	3680	927,2	1,87	6,38	1,61	576,8	3,06	13,63	cecomaf MBP				
[°F]	14	131	90	131														
[°C]	-10	45	20	45	1187,8	4057	1022,3	2,20	7,50	1,89	540,8	2,78	14,58	EN12900 MBP				
[°F]	14	113	68	113														

Standard conditions with different RPM

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

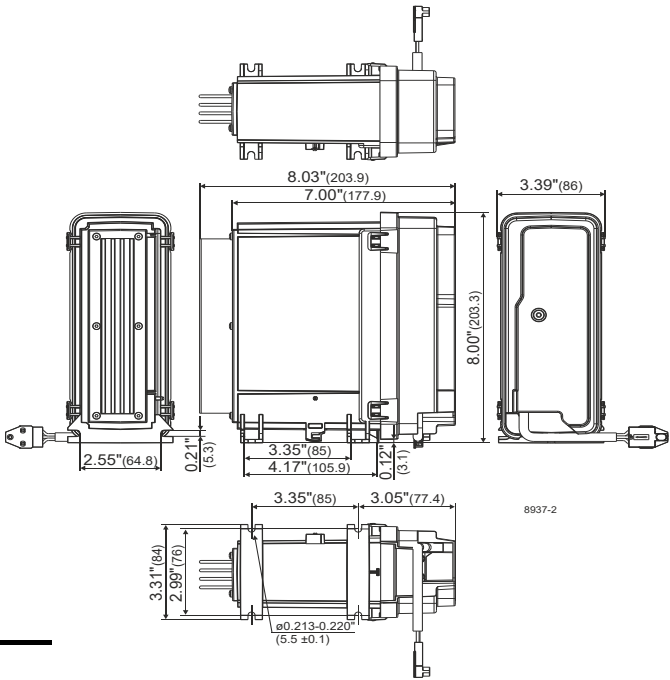


Test conditions:	pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]		pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]
ASHRAE LBP	-23,33	54,44	32,22	32,22	ASHRAE MBP	-6,66	54,44	46,11	35
cecomaf LBP	-25	55	55	32	cecomaf MBP	-10	55	55	32
EN12900 LBP	-35	40	40	20	EN12900 MBP	-10	45	45	20

Model				
Designation	NLV10CN	100-240V 50/60Hz	Conf. 3	Sales code: 105H7003
Controller	NLV MP MV GFCI	105N4962		

Sales code single:	105N4962 (1 units)
Sales code industry pack:	105N4963 (8 units)
Adaption to compressor:	detached
Protection class:	IP54
Weight:	1.4 kg / 3.08 lbs
Voltage nom.	100-240V 50/60Hz
Voltage range	90-150/180-270 V
Max, current:	4,2 A (230 V) / 8,4 A (115 V)
LRA (Locked Rotor Amperage):	1,2 A
Cable length:	915 mm
Compressor speed range:	2000-4500 rpm
Housing plastic:	UL94-5VA

Controller dimensions:



QR Code and Hyperlink leads to the [Operating Instructions.](#)

Operation Limits

Suctiongas temperature < +20°C (continous operation)

System cooling

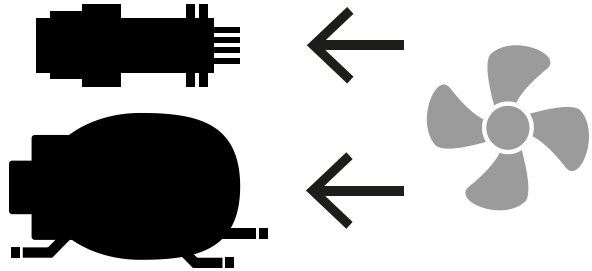
Ambient/ machineroom temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range compressor:	10 - 48°C / 50 - 119°F
Machine room temperature range controller:	10 - 50°C / 50 - 122°F

Compressor and Controller Cooling: Fan cooling 3m/s

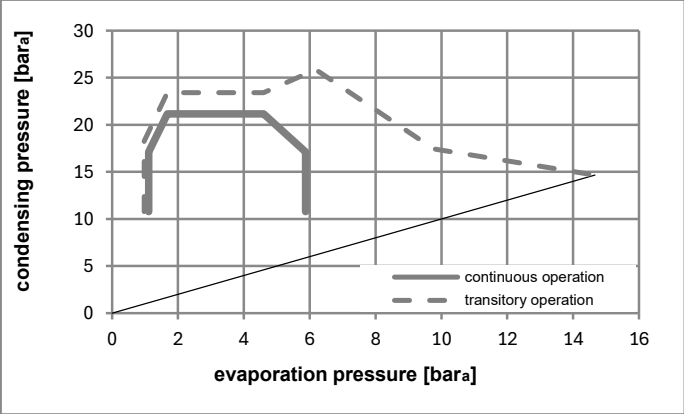
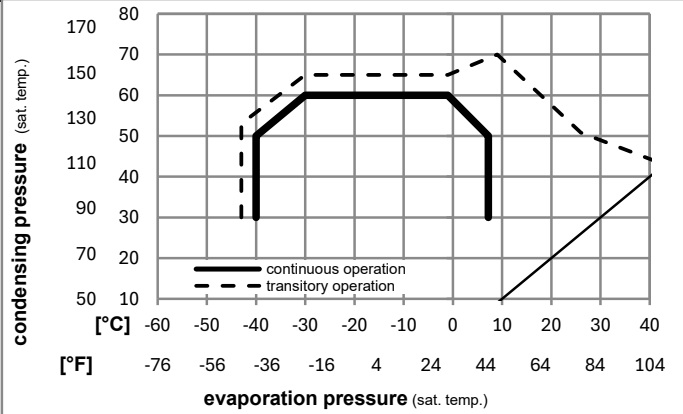
Ensure proper airflow of 3 m/s at both compressor and electronic units.

The airflow for the electronics must be directed to the heat sink.

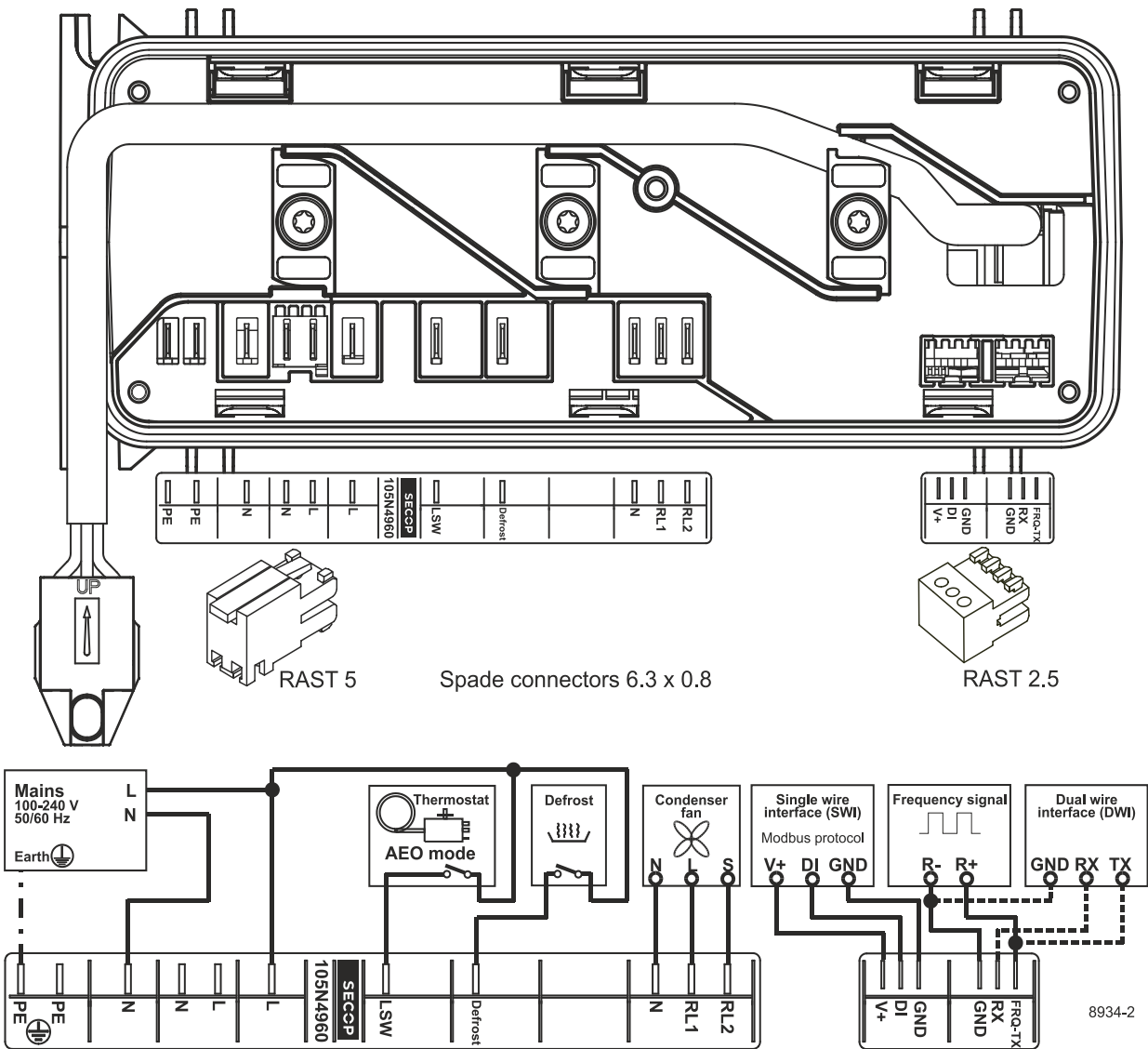


Operation pressure range

R290



Model					
Designation	NLV10CN	100-240V 50/60Hz	Conf. 3	Sales code:	105H7003
Controller	NLV MP MV GFCI				105N4962
Controller connections					



Accessories (Compressor + Controller) - check operation manual for details

103N2008	plastic cover	1 pcs
103N9110	plastic cover (MP of 103N2008)	80 pcs

Model			
Designation	NLV10CN	100-240V 50/60Hz	Conf. 3
		Sales code:	105H7003
Controller	NLV MP MV GFCI		105N4962

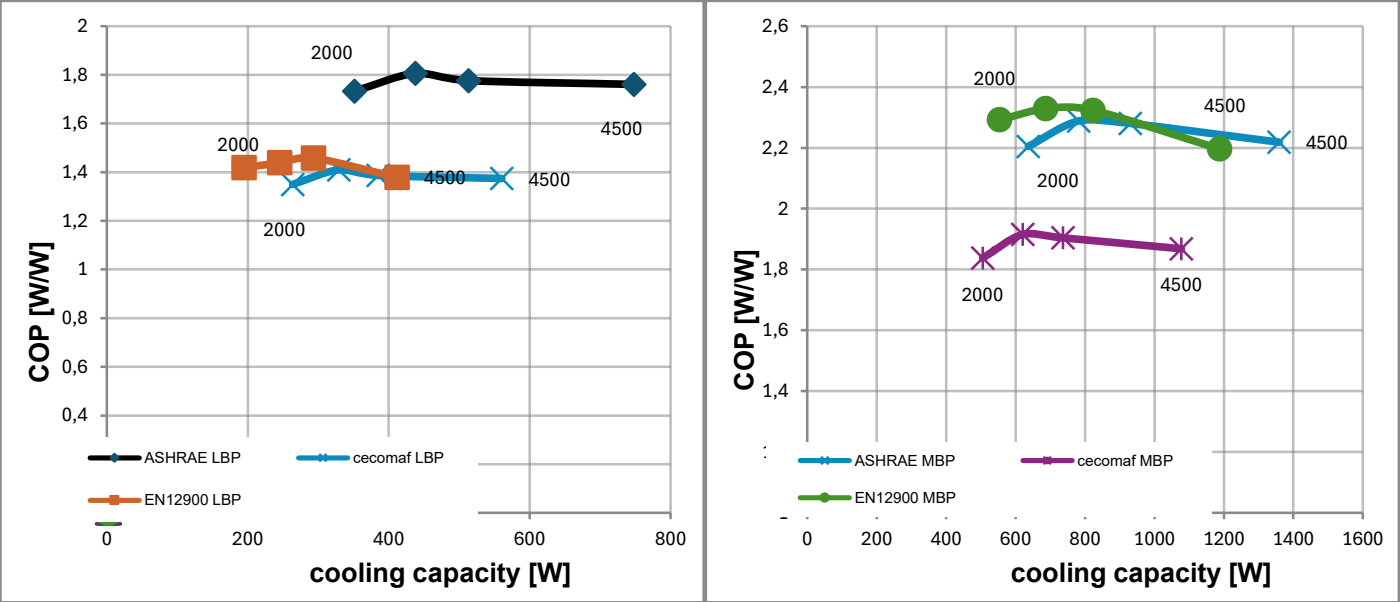
Optimization + standard conditions

R290, 220V, 50Hz, Rpm_N 4500, fan 3m/s

	Evaporating pressure (saturation temperature)										Condensing pressure (saturation temperature)				Power consumption			
															Current consumption			
															Ref. mass flow			

Standard conditions with different RPM

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

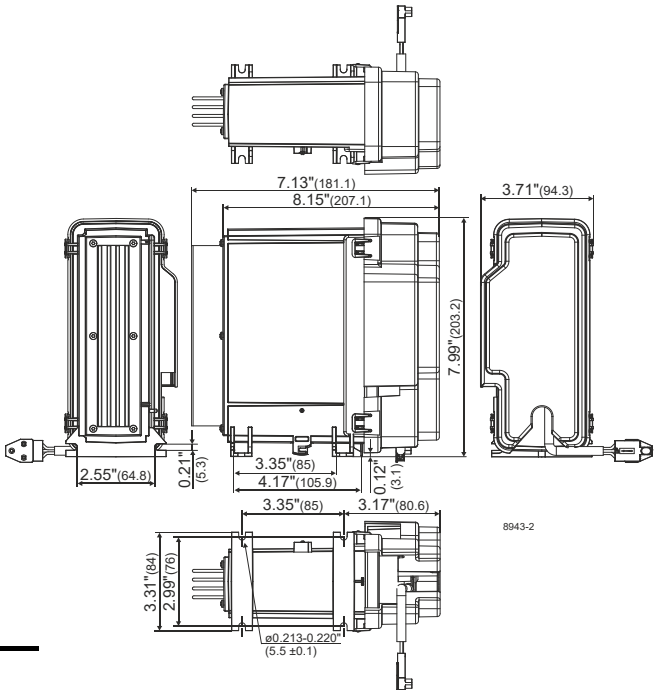


Test conditions:	pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]		pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]
ASHRAE LBP	-23,33	54,44	32,22	32,22	ASHRAE MBP	-6,66	54,44	46,11	35
cecomaf LBP	-25	55	55	32	cecomaf MBP	-10	55	55	32
EN12900 LBP	-35	40	40	20	EN12900 MBP	-10	45	45	20

Model				
Designation	NLV10CN	100-240V 50/60Hz1~ AC	Conf. 4	Sales code: 105H7003
Controller	NLV XT MV	105N4866		

Sales code single:	105N4866 (1 units)
Sales code industry pack:	105N4867 (8 units)
Adaption to compressor:	detached
Protection class:	IP43
Weight:	1.5 kg / 3.3 lbs
Voltage nom.	100-240V 50/60Hz1~ AC
Voltage range	90-150/180-270 V
Max, current:	4,2 A (230 V) / 8,4 A (115 V)
LRA (Locked Rotor Amperage):	1,2 A
Cable length:	630 mm
Compressor speed range:	2000-4500 rpm
Housing plastic:	UL94-5VA

Controller dimensions:



 QR Code and Hyperlink leads to the [Operating Instructions.](#)

Operation Limits

Suctiongas temperature < +20°C (continous operation)

System cooling

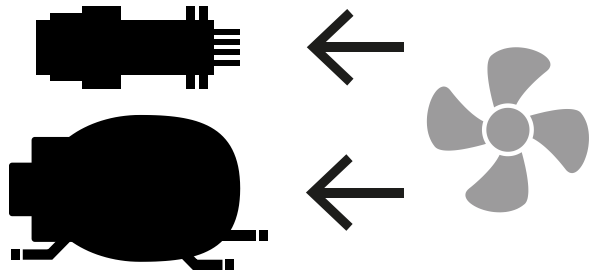
Ambient/ machineroom temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range compressor:	10 - 48°C / 50 - 119°F
Machine room temperature range controller:	10 - 50°C / 50 - 122°F

Compressor and Controller Cooling: Fan cooling 3m/s

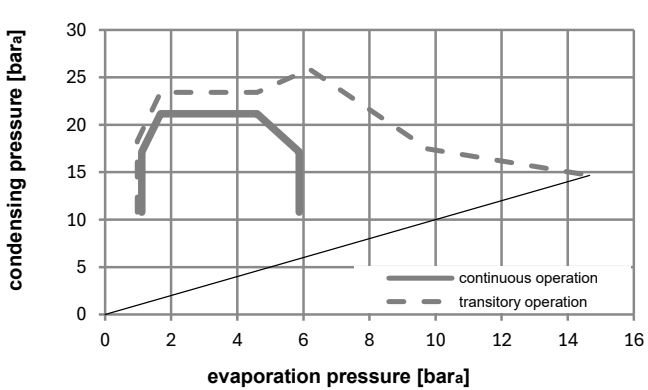
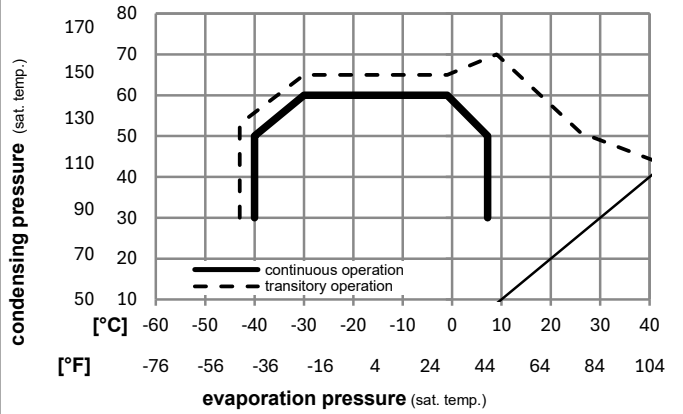
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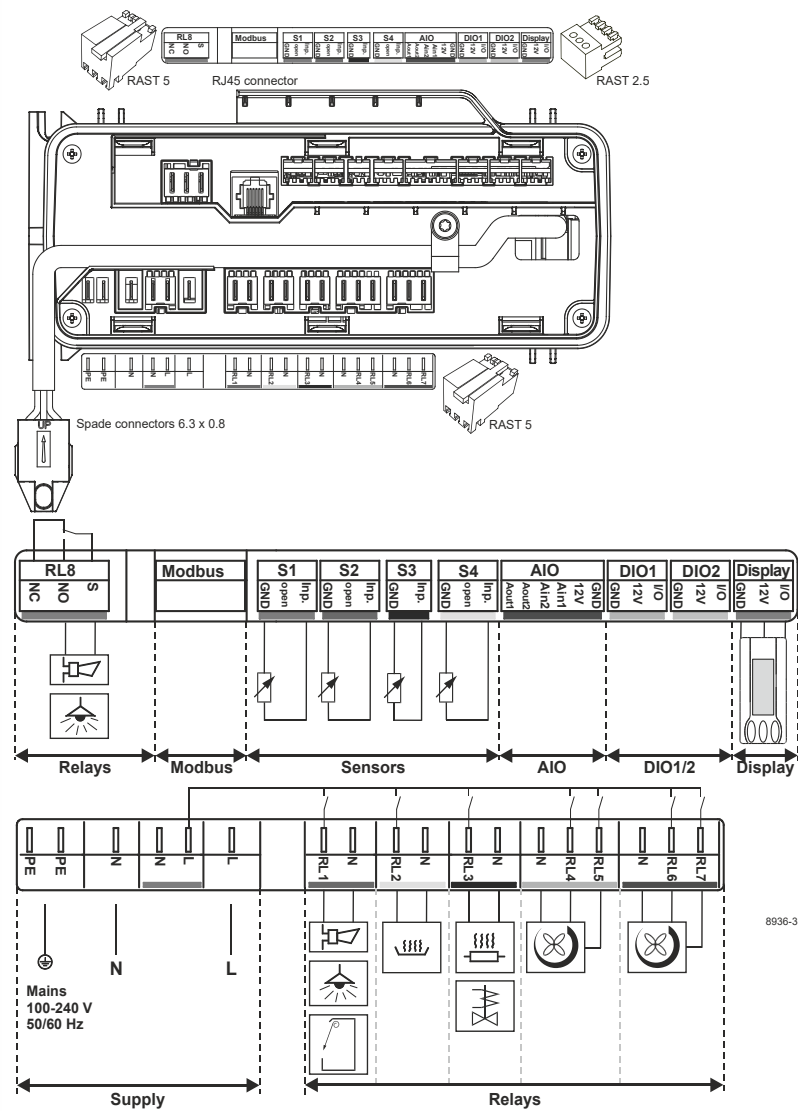
Operation pressure range

R290



Model					
Designation	NLV10CN	100-240V 50/60Hz1~ AC	Conf. 4	Sales code:	105H7003
Controller	NLV XT MV	105N4866			

Controller connections



Accessories (Compressor + Controller) - check operation manual for details

103N2008	plastic cover	1 pcs
103N9110	plastic cover (MP of 103N2008)	80 pcs

Model			
Designation	NLV10CN	100-240V 50/60Hz1~ AC	Conf. 4
		Sales code:	105H7003
Controller	NLV XT MV	105N4866	

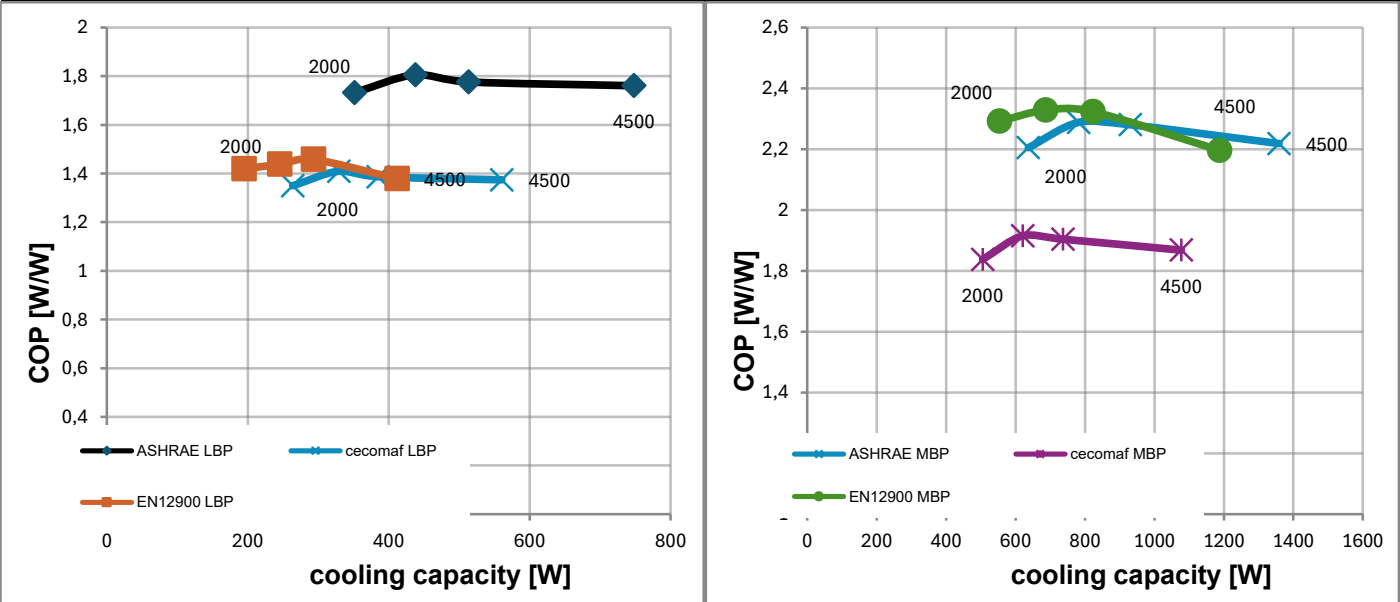
Optimization + standard conditions

R290, 220V, 50Hz, Rpm_N 4500, fan 3m/s

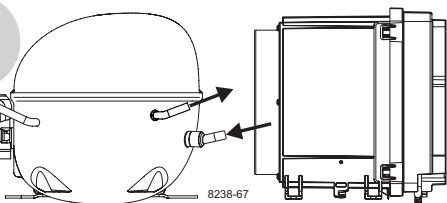
	Evaporating pressure (saturation temperature)										Condensing pressure (saturation temperature)					Power consumption					
											Current consumption										
											Ref. mass flow										
pe	pc	RGT	Tliq		[W]	[Btu/h]	[kcal/h]	COP	EER		P1	I	m								
[°C]	-23	54	32	32	747,9	2554	643,7	1,76	6,01	1,52	424,8	2,21	7,57	ASHRAE LBP							
[°F]	-10	130	90	90																	
[°C]	-25	55	32	55	560,5	1914	482,4	1,37	4,69	1,18	407,9	2,11	6,98	cecomaf LBP							
[°F]	-13	131	90	131																	
[°C]	-35	40	20	40	412,3	1408	354,9	1,38	4,71	1,19	299,1	1,44	4,71	EN12900 LBP							
[°F]	-31	104	68	104																	
[°C]	-7	54	35	46	1359,1	4641	1169,6	2,22	7,58	1,91	612,6	3,25	15,50	ASHRAE MBP							
[°F]	20	130	95	115																	
[°C]	-10	55	32	55	1077,4	3680	927,2	1,87	6,38	1,61	576,8	3,06	13,63	cecomaf MBP							
[°F]	14	131	90	131																	
[°C]	-10	45	20	45	1187,8	4057	1022,3	2,20	7,50	1,89	540,8	2,78	14,58	EN12900 MBP							
[°F]	14	113	68	113																	

Standard conditions with different RPM

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



Test conditions:	pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]		pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]
ASHRAE LBP	-23,33	54,44	32,22	32,22	ASHRAE MBP	-6,66	54,44	46,11	35
cecomaf LBP	-25	55	55	32	cecomaf MBP	-10	55	55	32
EN12900 LBP	-35	40	40	20	EN12900 MBP	-10	45	45	20



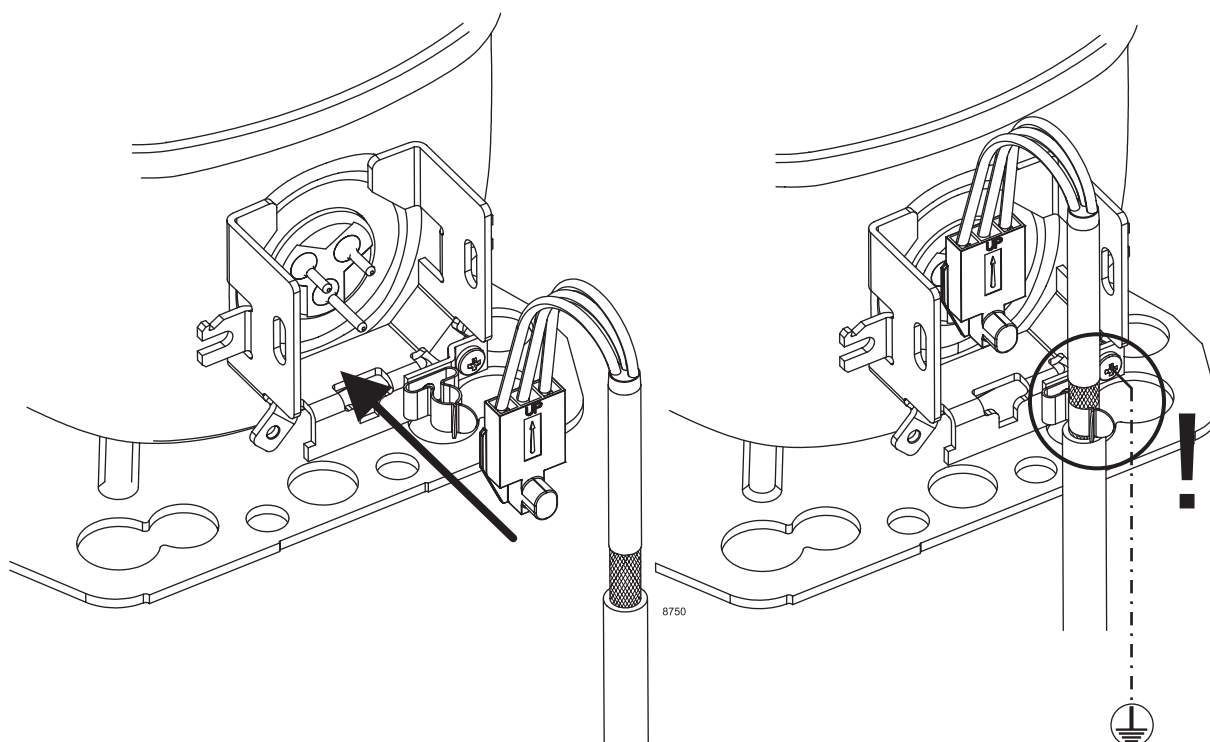
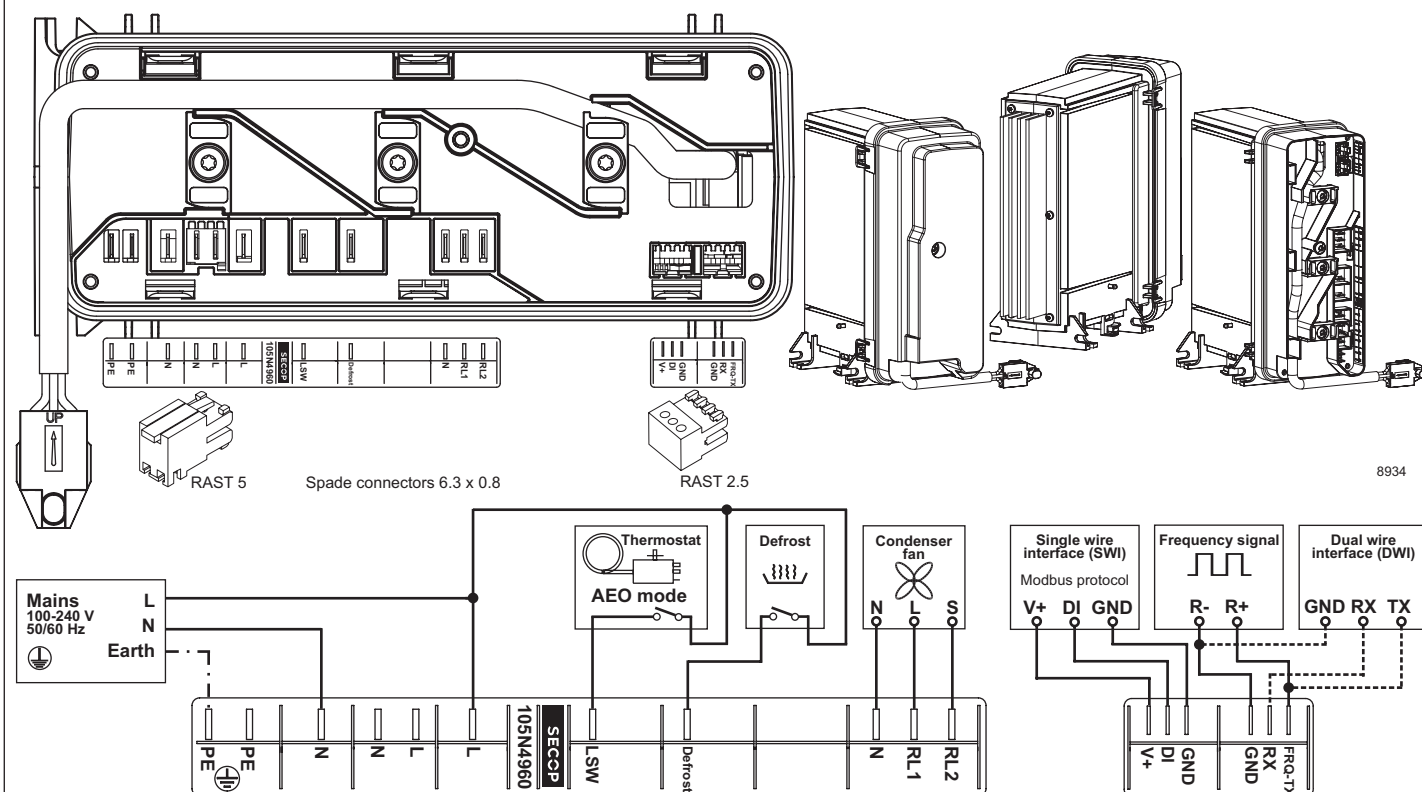
Instructions

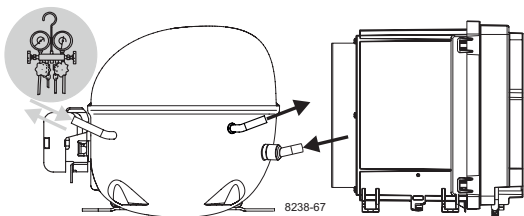
NLV Compressors

100-240V 50/60Hz
105N4960/105N4964
Controllers

SECCP

Keep electrical equipment
clear from oil, chemicals,
and water





Instructions

NLV Compressors

100-240V 50/60Hz
105N4960/105N4964
Controllers

SECCP

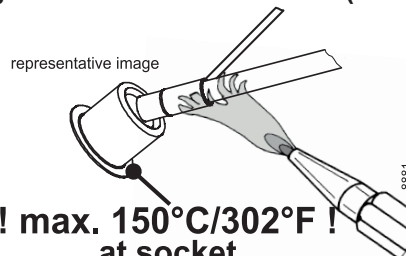
Keep electrical equipment
clear from oil, chemicals,
and water



Service/Repair R290



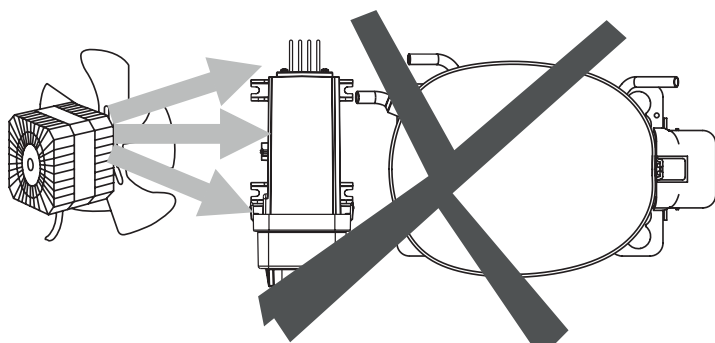
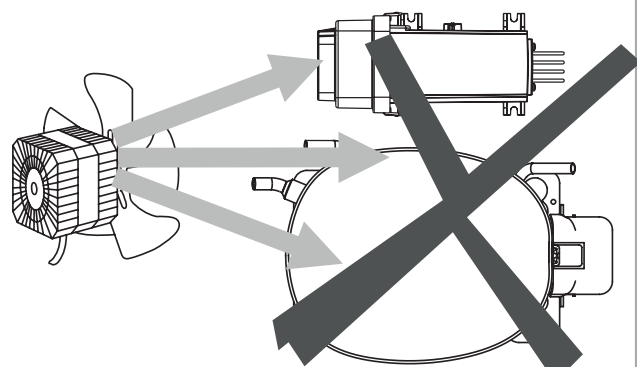
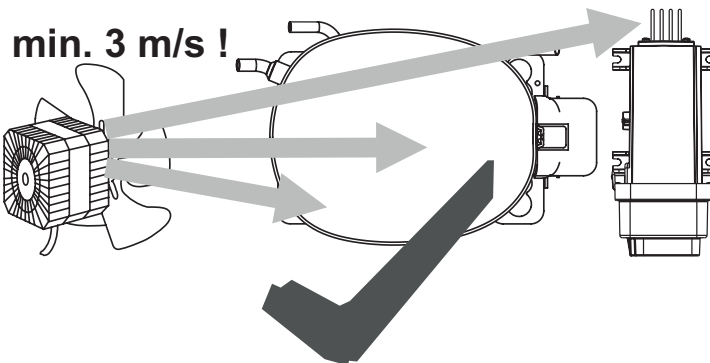
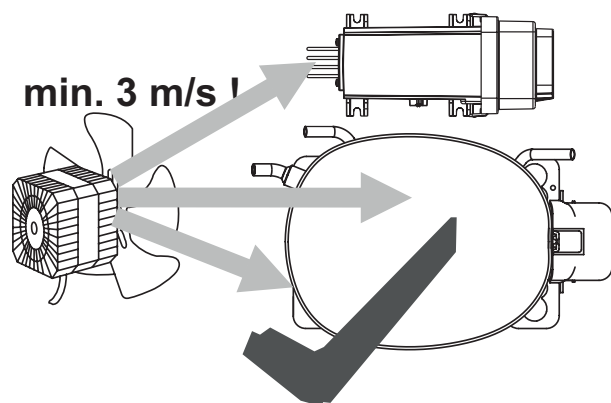
Brazing on Suction Connectors (Direct Intake)



**! max. 150°C/302°F !
at socket**

brazing solder: phosphor (LP7) or silver

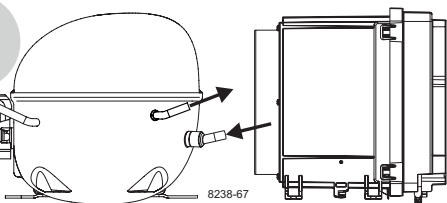
Refer to Product Bulletin: **Brazing on Suction Connectors
(Compressors with Direct Suction Intake)**



8938

Airflow	3 m/s
Operating conditions	+ 5 °C to 43 °C - humidity < 90 % rH non condensing
Storage conditions	-25 °C to 70 °C - humidity < 90 % rH non condensing
Supply voltage	100-240 V (± 10 %)
Frequency	50/60 Hz
Input power, max.	1000 W

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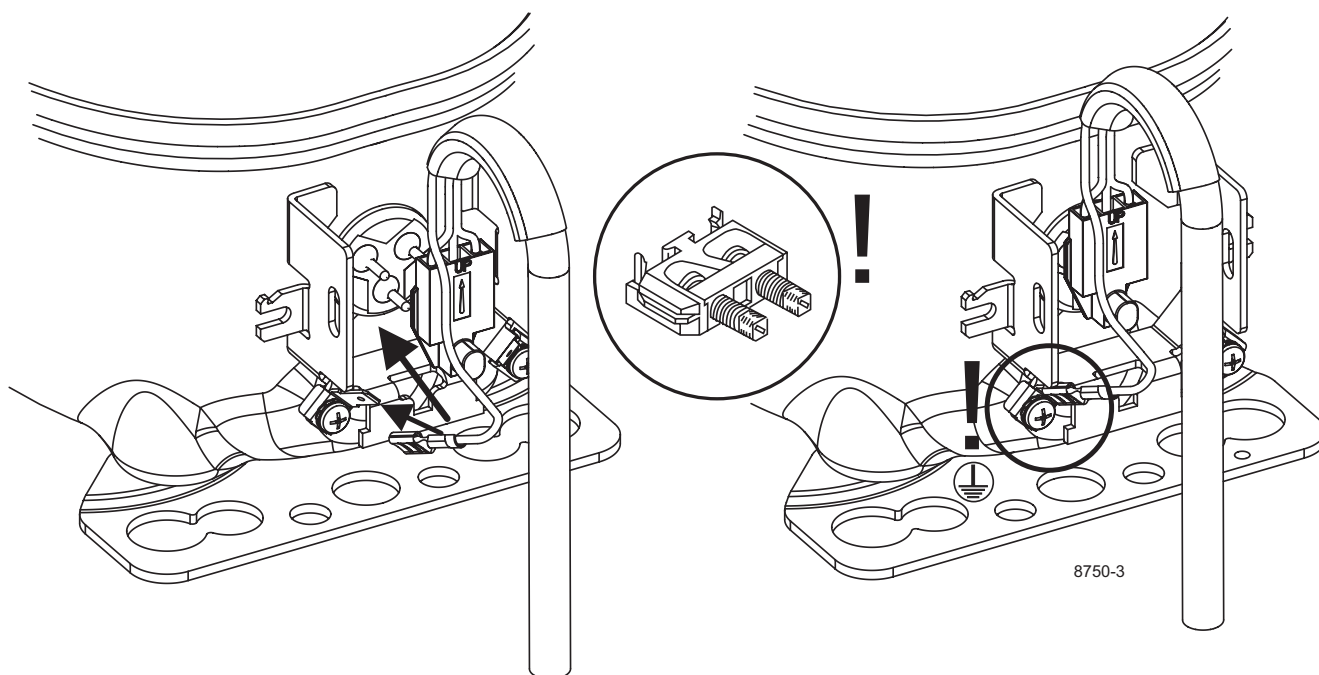
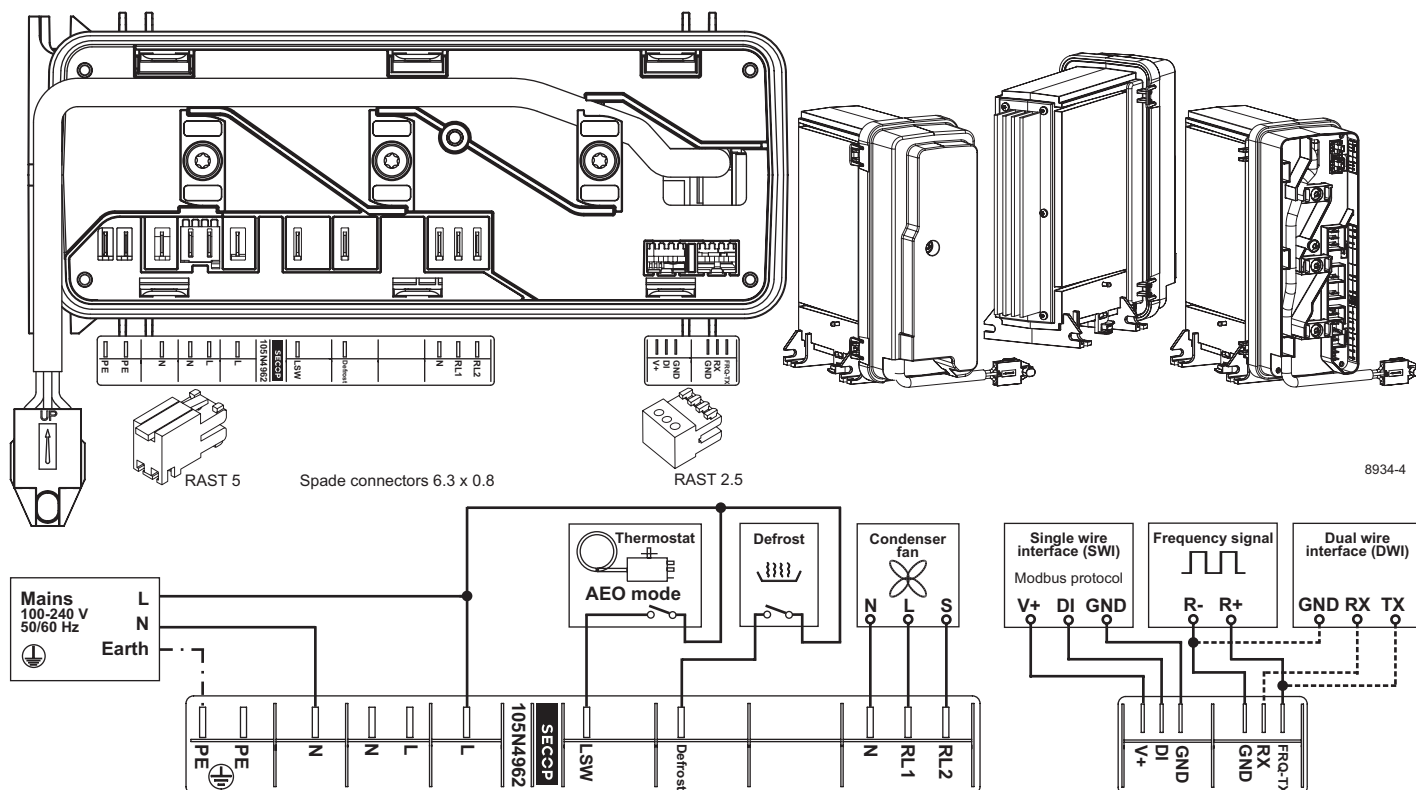
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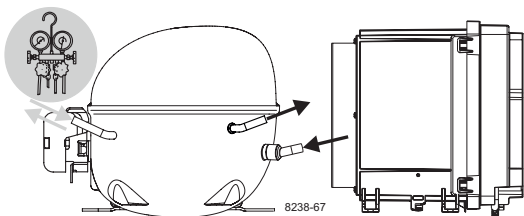
Instructions

NLV Compressors
100-240V 50/60Hz
105N4962/105N4966
105N4972 Controllers

SECOP

Keep electrical equipment
clear from oil, chemicals,
and water





Instructions

NLV Compressors

100-240V 50/60Hz
105N4962/105N4966
105N4972 Controllers

SECCP

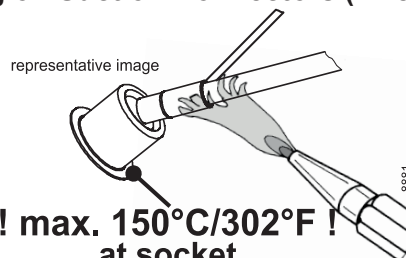
Keep electrical equipment
clear from oil, chemicals,
and water



Service/Repair R290



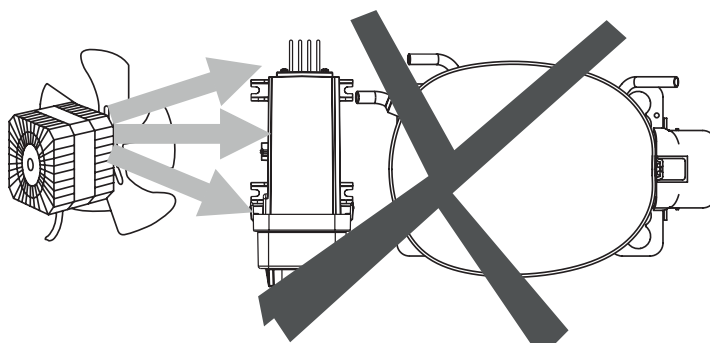
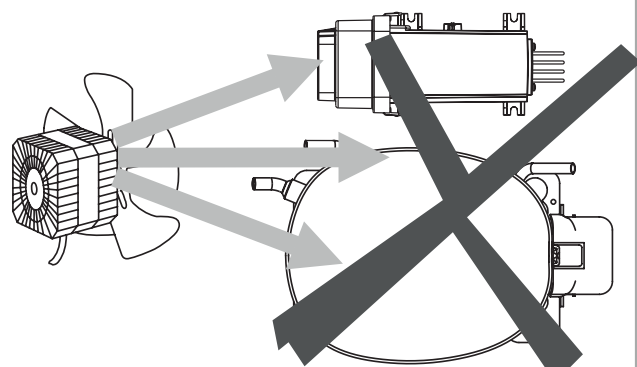
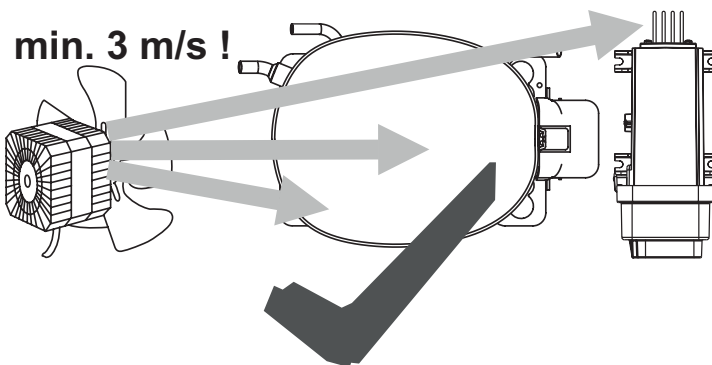
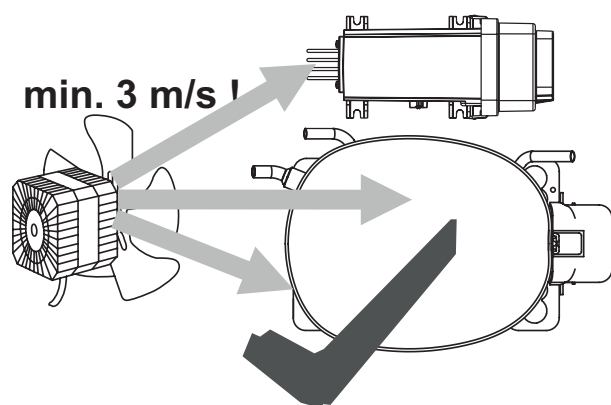
Brazing on Suction Connectors (Direct Intake)



**! max. 150°C/302°F !
at socket**

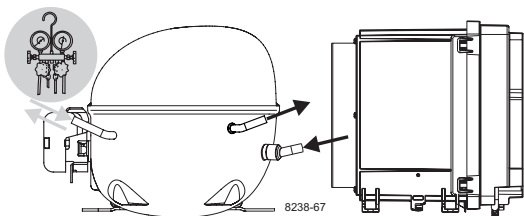
brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin: **Brazing on Suction Connectors
(Compressors with Direct Suction Intake)**



Airflow	3 m/s
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Storage conditions	-25 °C to 70 °C - humidity < 90 % rH non condensing
Supply voltage	100-240 V (± 10 %)
Frequency	50/60 Hz
Input power, max.	1000 W

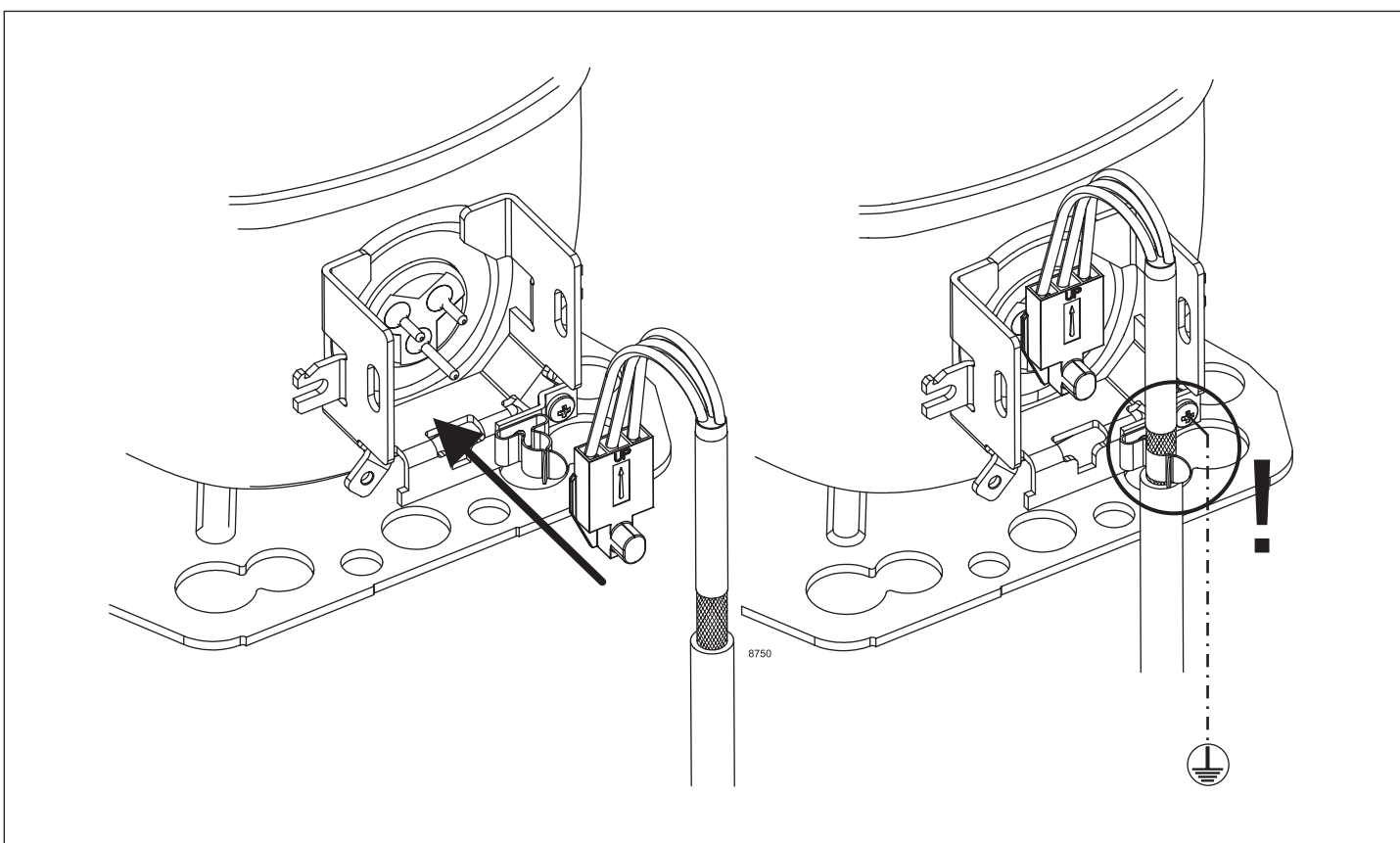
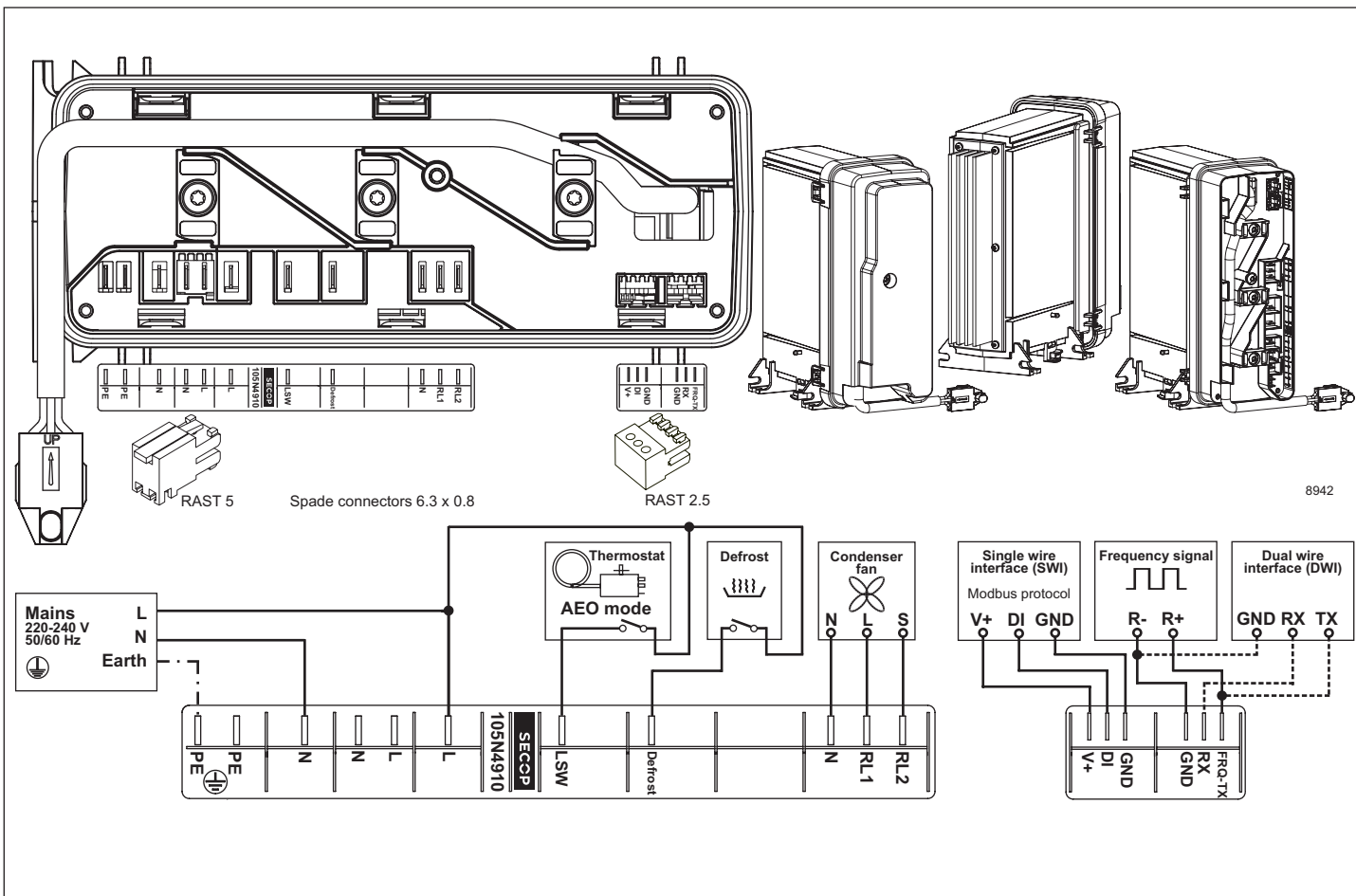
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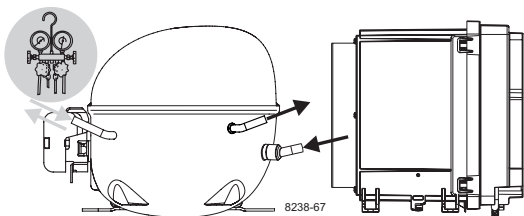


Instructions

NLV Compressors
220-240V 50/60Hz
105N491x Series
Controllers

SECCP





Instructions

NLV Compressors
220-240V 50/60Hz
105N491x Series
Controllers

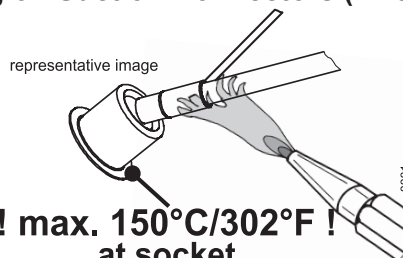
SECCP



Service/Repair R290



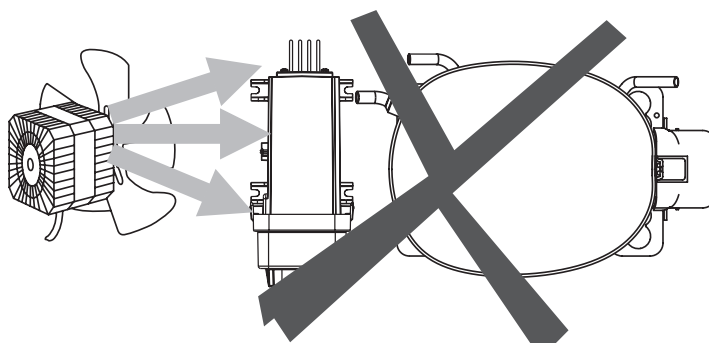
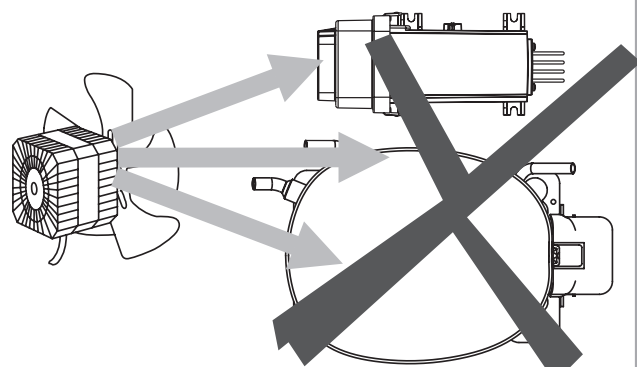
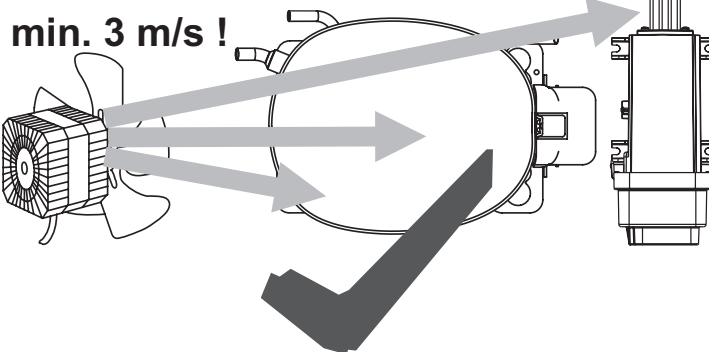
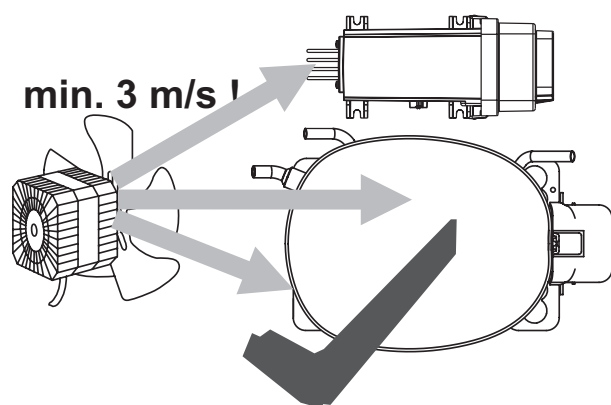
Brazing on Suction Connectors (Direct Intake)



**! max. 150°C/302°F !
at socket**

brazing solder: phosphor (LP7) or silver

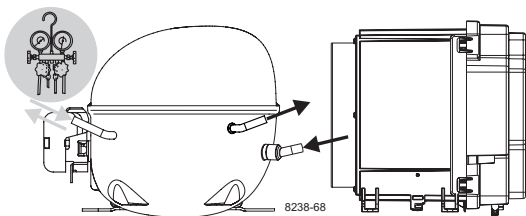
Refer to Product Bulletin: **Brazing on Suction Connectors
(Compressors with Direct Suction Intake)**



8938

Airflow	3 m/s
Operating conditions	+ 5 °C to 43 °C - humidity < 90 % rH non condensing
Storage conditions	-25 °C to 70 °C - humidity < 90 % rH non condensing
Supply voltage	220-240 V (± 10 %)
Frequency	50/60 Hz
Input power, max.	1000 W

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Instructions

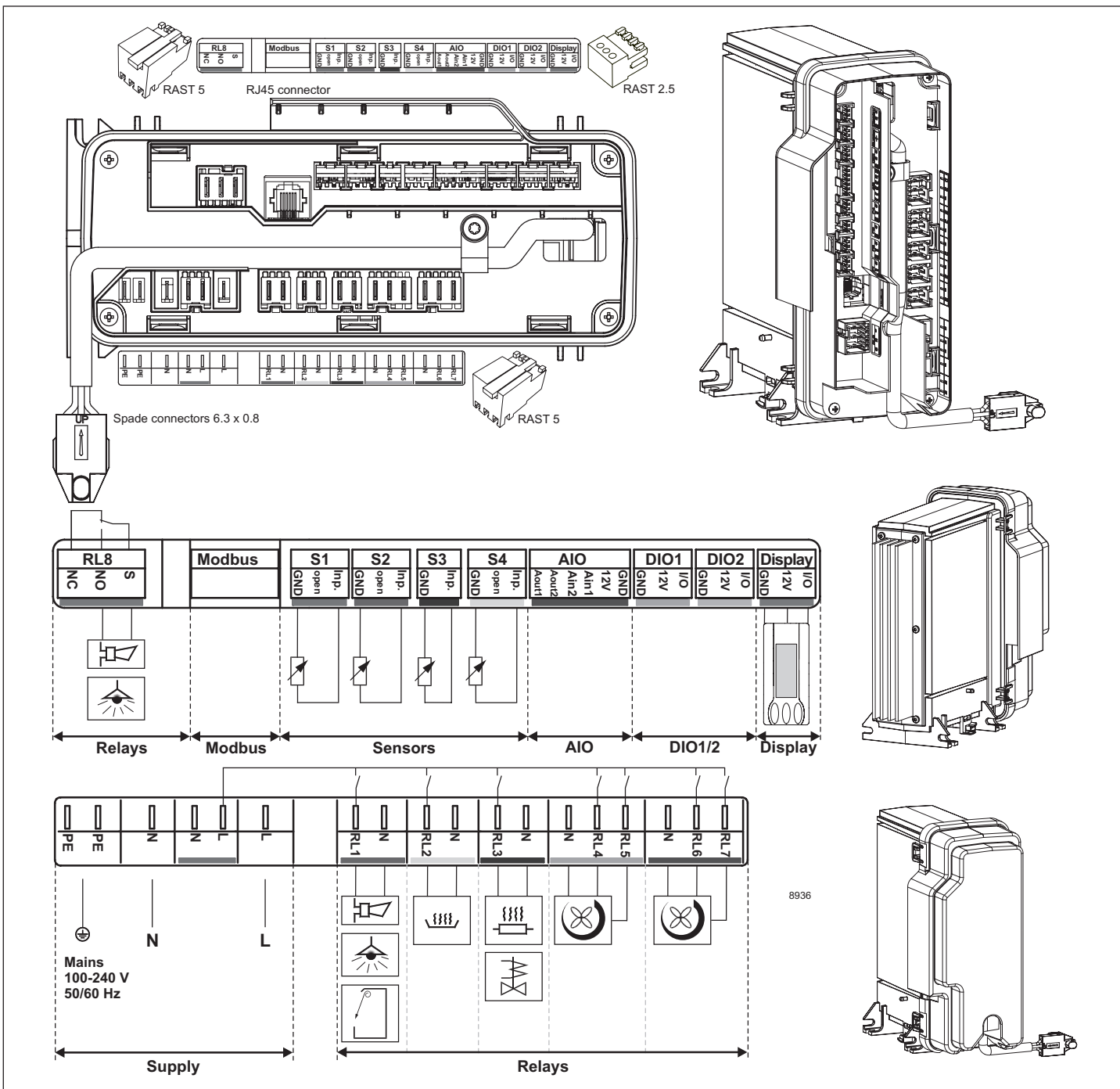
NLV Compressors

100-240V 50/60Hz

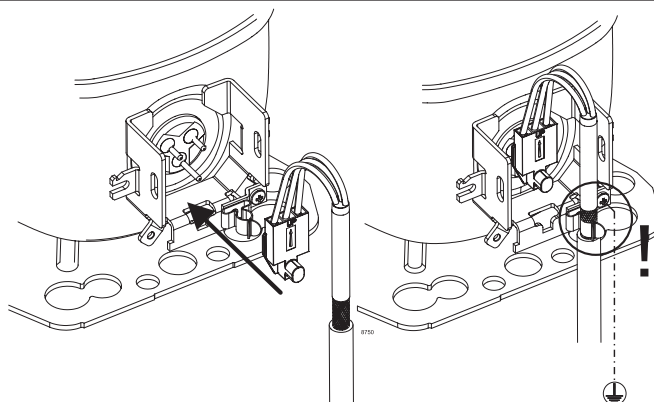
105N486x Series

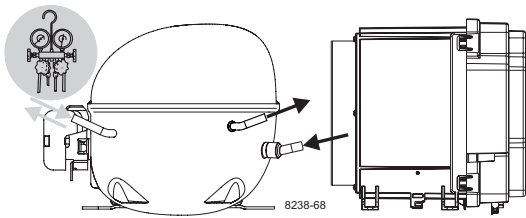
Controllers

SECCP



Mains	red	S1	red
RL 1	blue	S2	blue
RL 2	yellow	S3	black
RL 3	black	S4	yellow
RL 4, 5	grey	AIO	brown
RL 6, 7	brown	DIO1	grey
RL 8	green	DIO2	pink
		Display	green





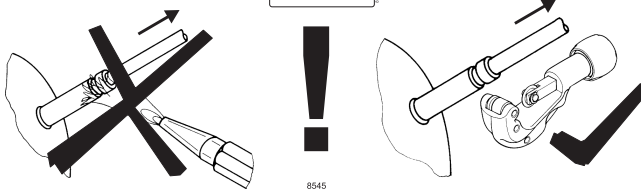
Instructions

NLV Compressors
100-240V 50/60Hz
105N486x Series
Controllers

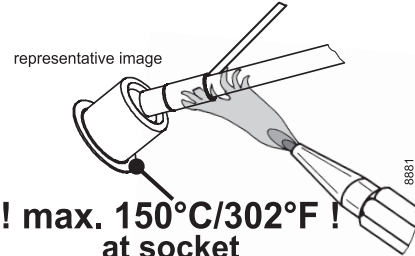
SECCP



Service/Repair R290



Brazing on Suction Connectors (Direct Intake)

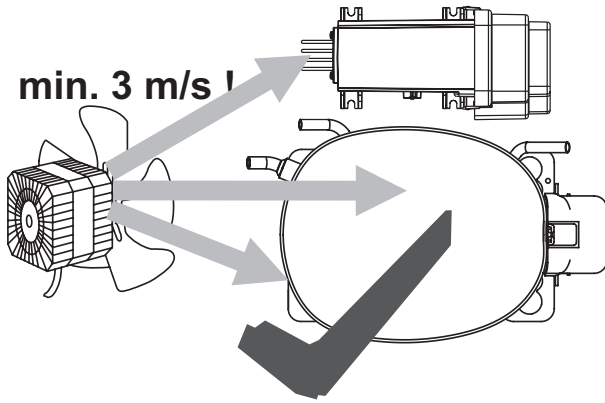


**! max. 150°C/302°F !
at socket**

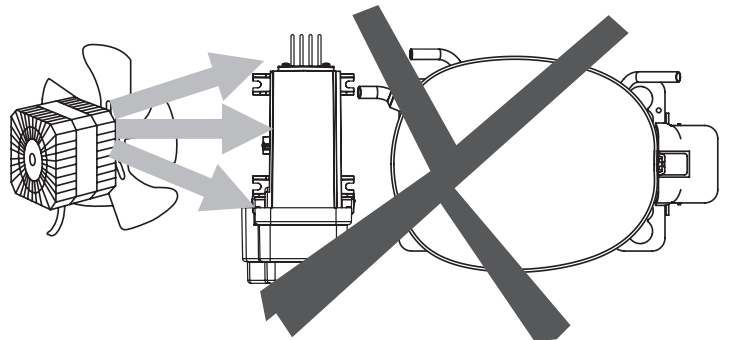
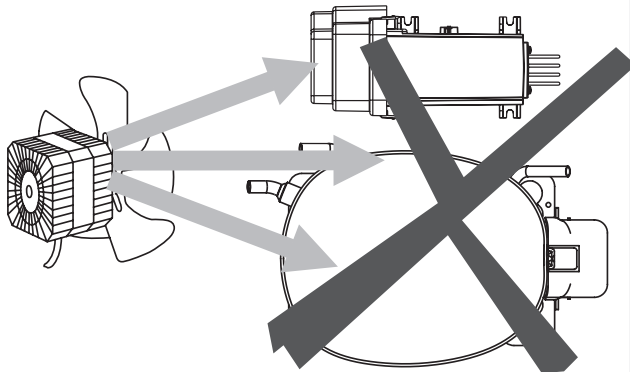
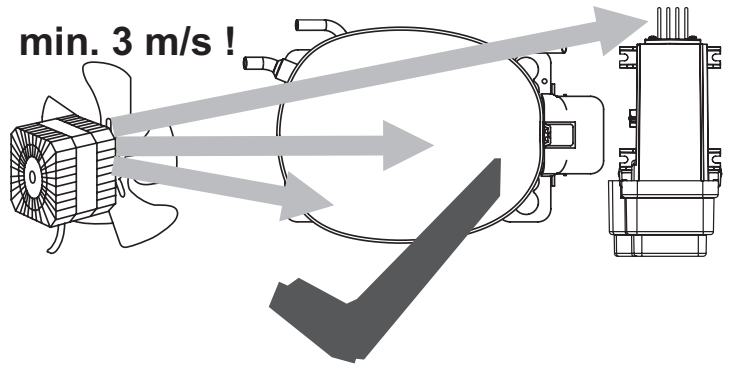
brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin: **Brazing on Suction Connectors
(Compressors with Direct Suction Intake)**

min. 3 m/s !



min. 3 m/s !



8939

Airflow	3 m/s
Operating conditions	+ 5 °C to 43 °C - humidity < 90 % rH non condensing
Storage conditions	-25 °C to 70 °C - humidity < 90 % rH non condensing
Supply voltage	100-240 V (± 10 %)
Frequency	50/60 Hz
Input power, max.	1000 W

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