

Model

Designation **NLV8.0CN** **100-240V50/60Hz** **Conf. 1** Sales code: **105H7865**

Controller **NLV XT MV** **105N4866**

Sales code single pack: 105N4866 (1 units) Controller dimensions:
 Sales code industry pack: 105N4867 (8 units)
 Adaption to compressor: detached
 Protection class: IP43
 Weight: 1,5kg/3,3lbs
 Voltage nom.: 100-240V50/60Hz
 Voltage range: 90-150/180-270V
 Max. current: 4,2A(230V)/8,4A(115V)
 LRA (Locked Rotor Amperage) 1,2A
 Cable length: 630mm
 Compressor speed range: 2000-4500rpm
 Housing plastic: UL94-5VA

Operation Limits

System cooling

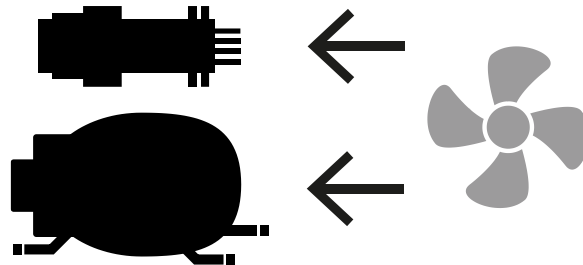
Ambient/ machineroom temperatures minimum /maximum

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

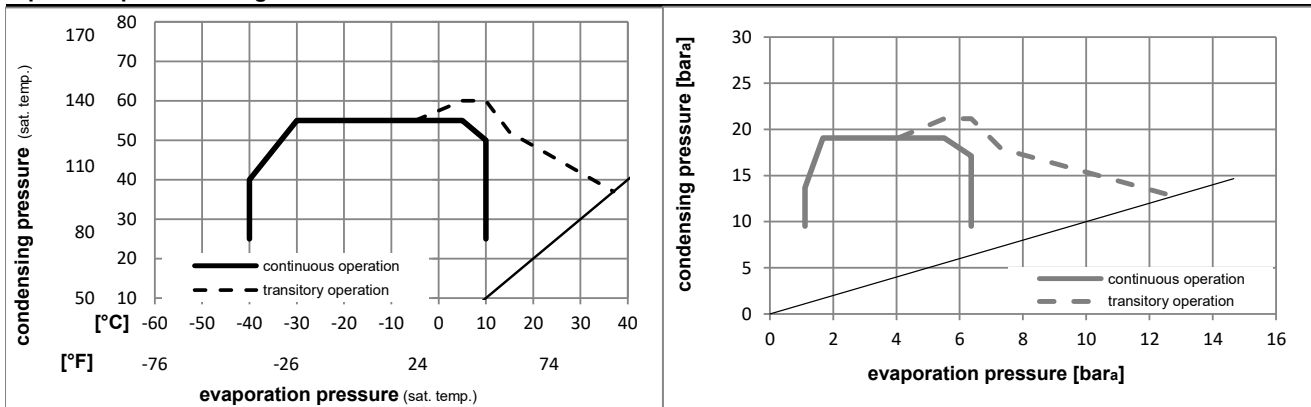
Ensure proper airflow of 3 m/s at both compressor and electronic units.

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



Operation pressure range

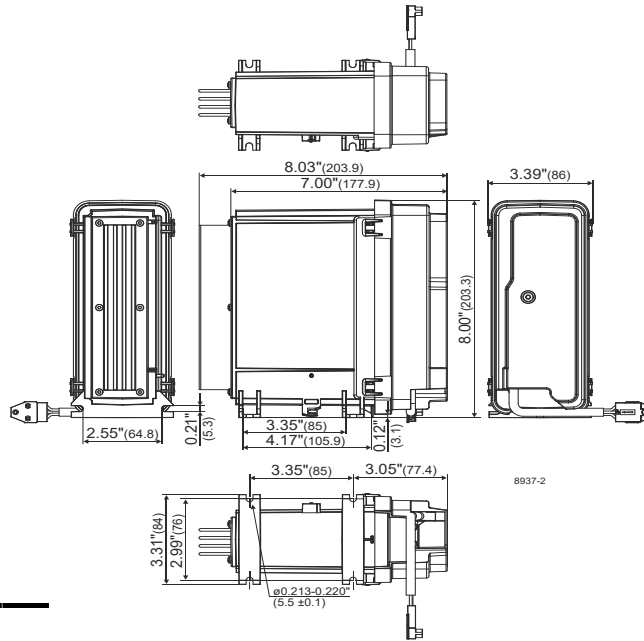
R290



Model				
Designation	NLV8.0CN	220-240V,50/60Hz	Conf. 2	Sales code: 105H7865
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:	1,4kg/3,08lbs
Voltage nom.	220-240V,50/60Hz
Voltage range	180-270V
Max, current:	4,2A(230V)
LRA (Locked Rotor Amperage)	1,2A
Cable length:	680mm
Compressor speed range:	2000-4500rpm
Housing plastic:	UL94-5VA

Controller dimensions:



Operation Limits

System cooling

Ambient/ machineroom temperatures minimum /maximum

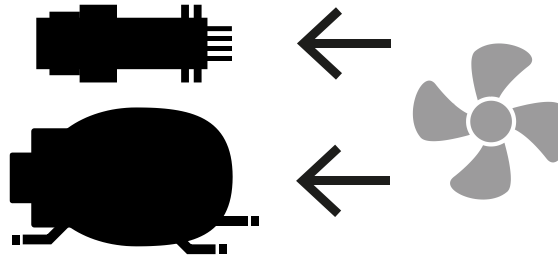
Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range compressor:	10 - 48°C / 50 - 119°F
Machine room temperature range controller:	10 - 50°C / 50 - 122°F

Compressor and Controller Cooling:

Fan cooling 3m/s

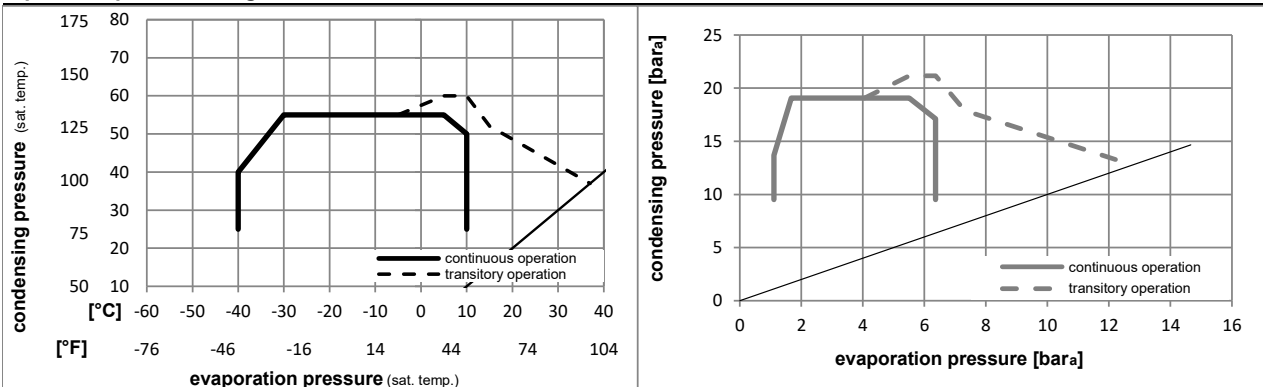
Ensure proper airflow of 3 m/s at both compressor and electronic units.

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



Operation pressure range

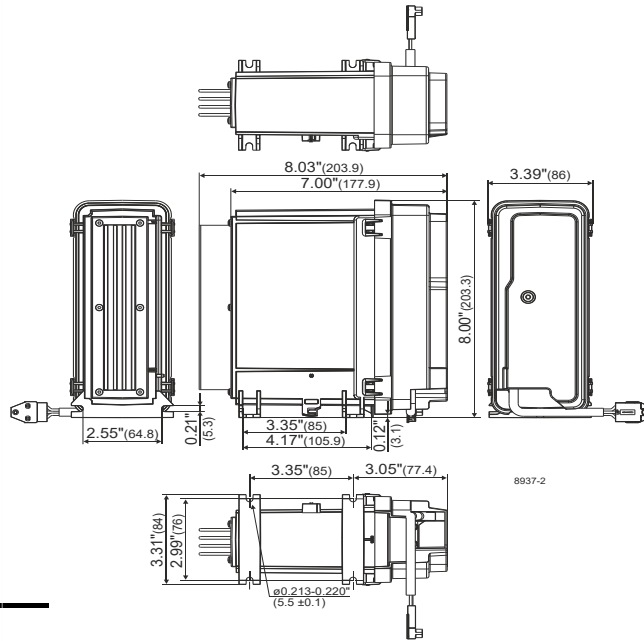
R290



Model				
Designation	NLV8.0CN	100-240V,50/60Hz	Conf. 3	Sales code: 105H7865
Controller	NLV MP MV	105N4960		

Sales code single pack:	105N4960 (1 units)
Sales code industry pack:	105N4961 (8 units)
Adaption to compressor:	detached
Protection class:	IP54
Weight:	1,4kg/3,08lbs
Voltage nom.	100-240V,50/60Hz
Voltage range	90-150/180-270V
Max. current:	4,2A(230V)/8,4A(115V)
LRA (Locked Rotor Amperage)	1,2A
Cable length:	680mm
Compressor speed range:	2000-4500rpm
Housing plastic:	UL94-5VA

Controller dimensions:



Operation Limits

System cooling

Ambient/ machineroom temperatures minimum /maximum

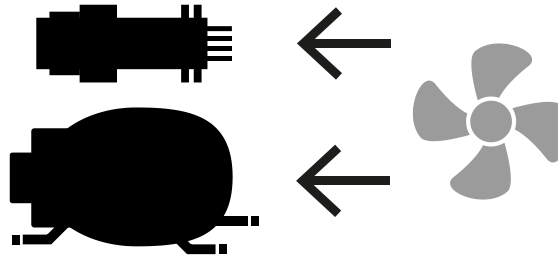
Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range compressor:	10 - 48°C / 50 - 119°F
Machine room temperature range controller:	10 - 50°C / 50 - 122°F

Compressor and Controller Cooling:

Fan cooling 3m/s

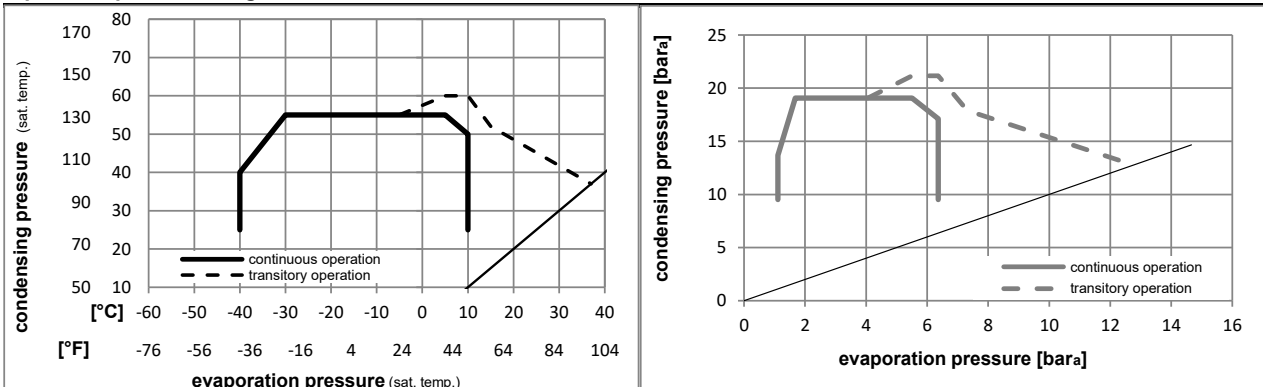
Ensure proper airflow of 3 m/s at both compressor and electronic units.

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



Operation pressure range

R290



Model

Designation **NLV8.0CN** **100-240V,50/60Hz** **Conf. 4** Sales code: **105H7865**

Controller **NLV MP MV GFCI** **105N4962**

Sales code single pack: 105N4962 (1 units)

Controller dimensions:

Sales code industry pack: 105N4963 (8 units)

Adaption to compressor: detached

Protection class: IP54

Weight: 1,4kg/3,08lbs

Voltage nom. 100-240V,50/60Hz

Voltage range 90-150/180-270V

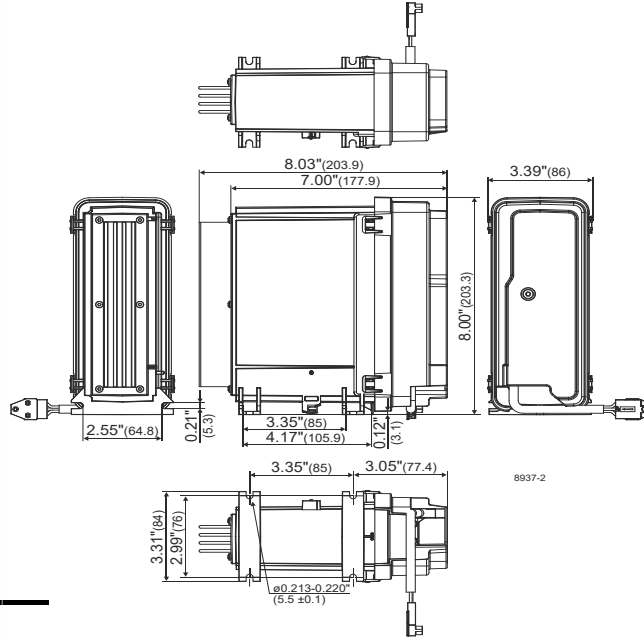
Max. current: 4,2A(230V)/8,4A(115V)

LRA (Locked Rotor Amperage) 1,2A

Cable length: 915mm

Compressor speed range: 2000-4500rpm

Housing plastic: UL94-5VA



Operation Limits

System cooling

Ambient/ machineroom temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

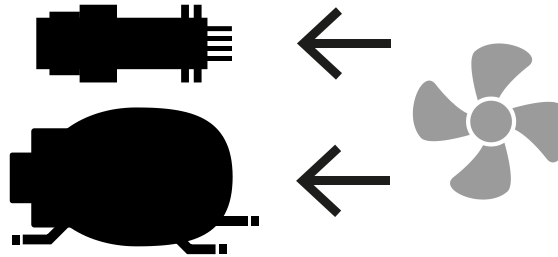
Machine room temperature range compressor: 10 - 48°C / 50 - 119°F

Machine room temperature range controller: 10 - 50°C / 50 - 122°F

Compressor and Controller Cooling: Fan cooling 3m/s

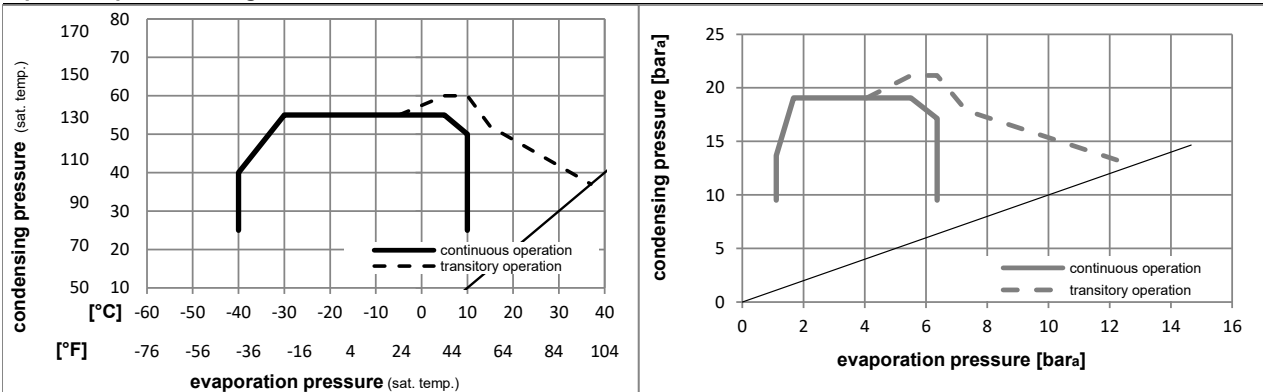
Ensure proper airflow of 3 m/s at both compressor and electronic units.

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



Operation pressure range

R290

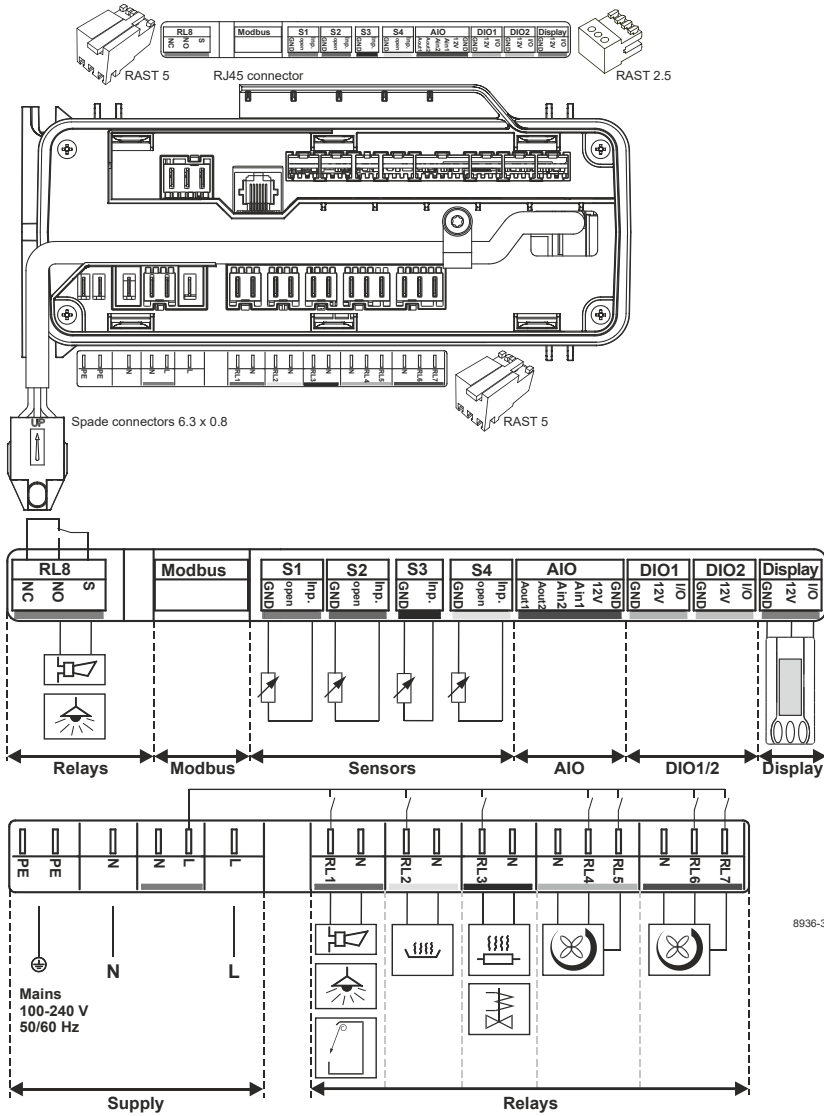


Model

Designation **NLV8.0CN** **100-240V50/60Hz** **Conf. 1** Sales code: **105H7865**

Controller **NLV XT MV** **105N4866**

Controller connections

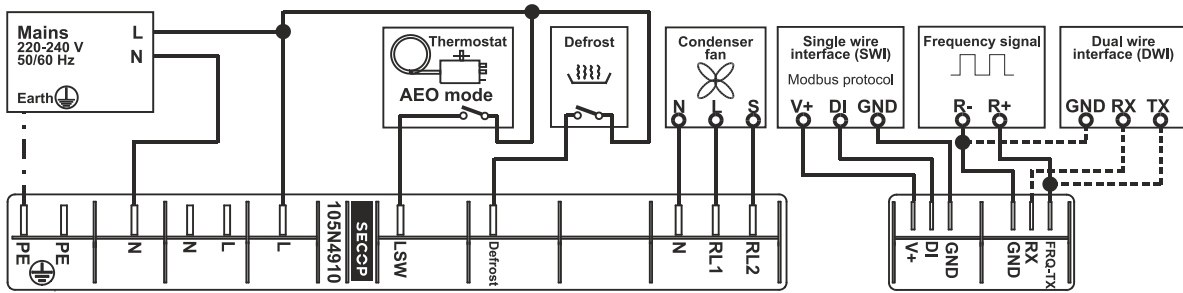
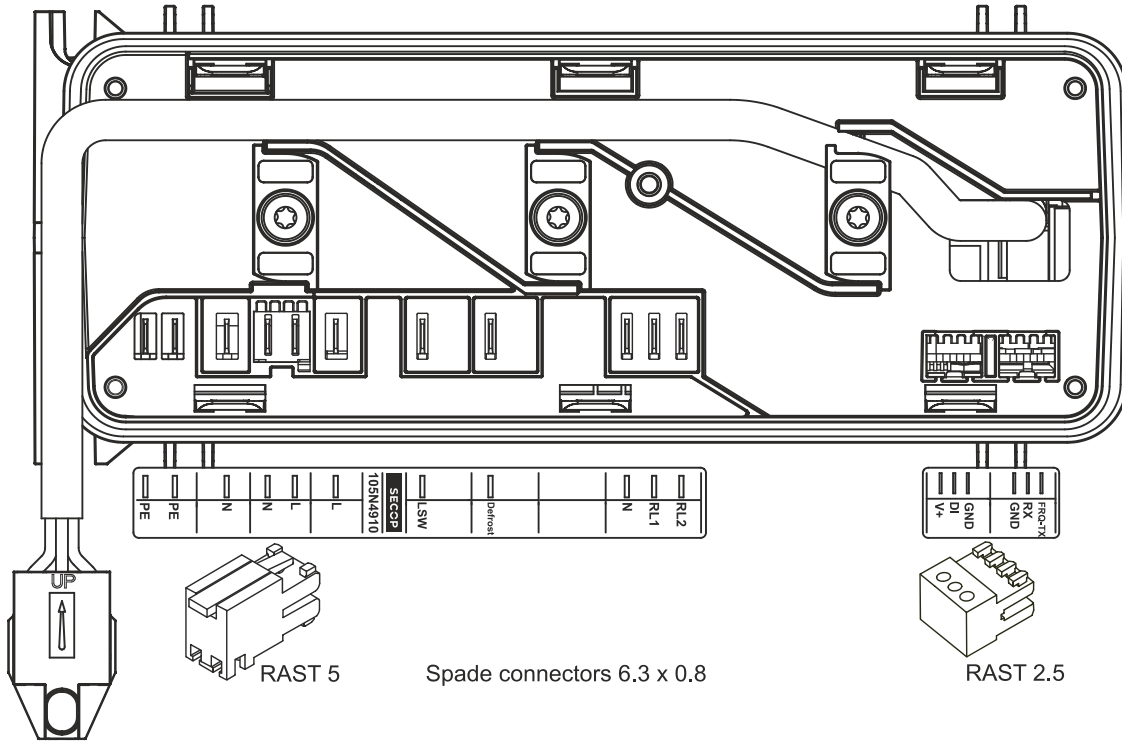


Accessories (Compressor + Controller) - check operation manual for details

103N2008 plastic cover 1 pcs

Model			
Designation	NLV8.0CN	Conf. 2,3,4	Sales code: 105H7865
Controller		105N4910,105N4960,105N4962	

Controller connections



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

103N2008	plastic cover	1 pcs
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Model

Designation **NLV8.0CN** Conf. **1,2,3,4** Sales code: **105H7865**

Controller

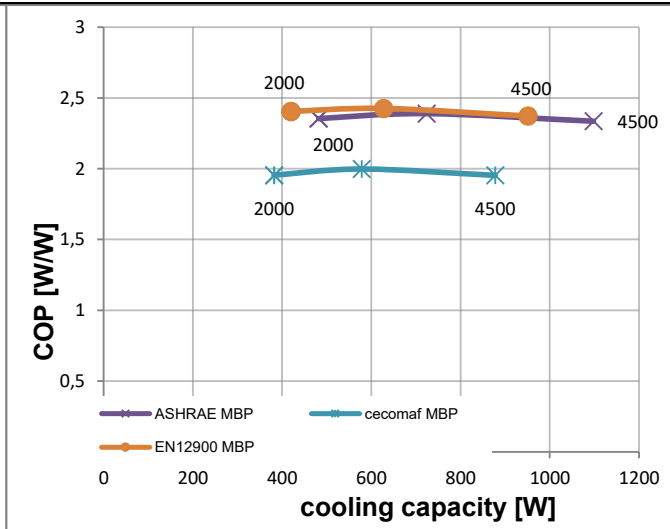
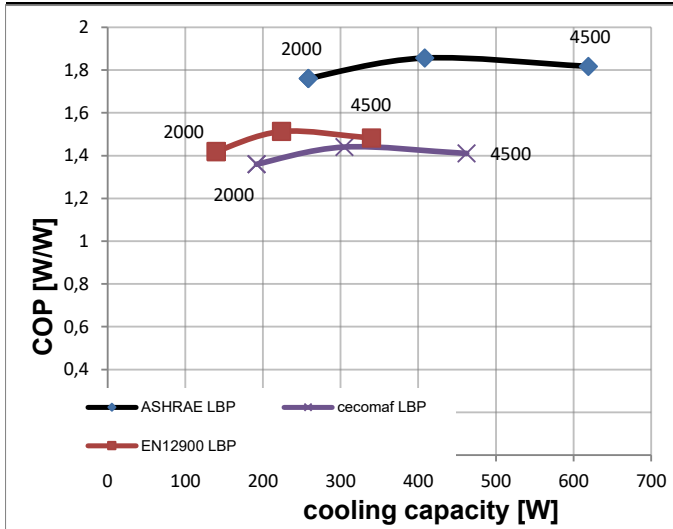
Optimization + standard conditions

R290, 240V, 50Hz, Rpm_N 4500, Fan cooling 3m/s

	Evaporating pressure (saturation temperature)			Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP	EER	Power consumption			ASHRAE LBP
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	[W]	[A]			[kg/h]			
[°C]	-23	54	32	32	619,2	2115	532,9	1,82	6,21	1,56	340,7	1,49	6,27								
[°F]	-10	130	90	90																	
[°C]	-25	55	32	55	462,4	1579	398,0	1,41	4,82	1,21	327,9	1,43	5,76								
[°F]	-13	131	90	131																	
[°C]	-35	40	20	40	339,9	1161	292,5	1,48	5,06	1,28	229,3	1,04	3,88								
[°F]	-31	104	68	104																	
[°C]	-7	54	35	46	1098,1	3750	945,0	2,34	7,98	2,01	470,2	2,02	12,53								
[°F]	20	130	95	115																	
[°C]	-10	55	32	55	877,5	2997	755,2	1,95	6,67	1,68	449,2	1,93	11,10								
[°F]	14	131	90	131																	
[°C]	-10	45	20	45	951,5	3249	818,9	2,37	8,10	2,04	401,1	1,73	11,68								
[°F]	14	113	68	113																	

Standard conditions with different RPM

R290, 240V, 50Hz, Fan cooling 3m/s



Test conditions:

	pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]
ASHRAE LBP	-23	54,44	32,22	32,22
cecomaf LBP	-25	55	55	32
EN12900 LBP	-35	40	40	20

	pe [°C]	pc [°C]	Tliq [°C]	Tsuc [°C]
ASHRAE MBP	-6,66	54,44	46,11	35
cecomaf MBP	-10	55	55	32
EN12900 MBP	-10	45	45	20