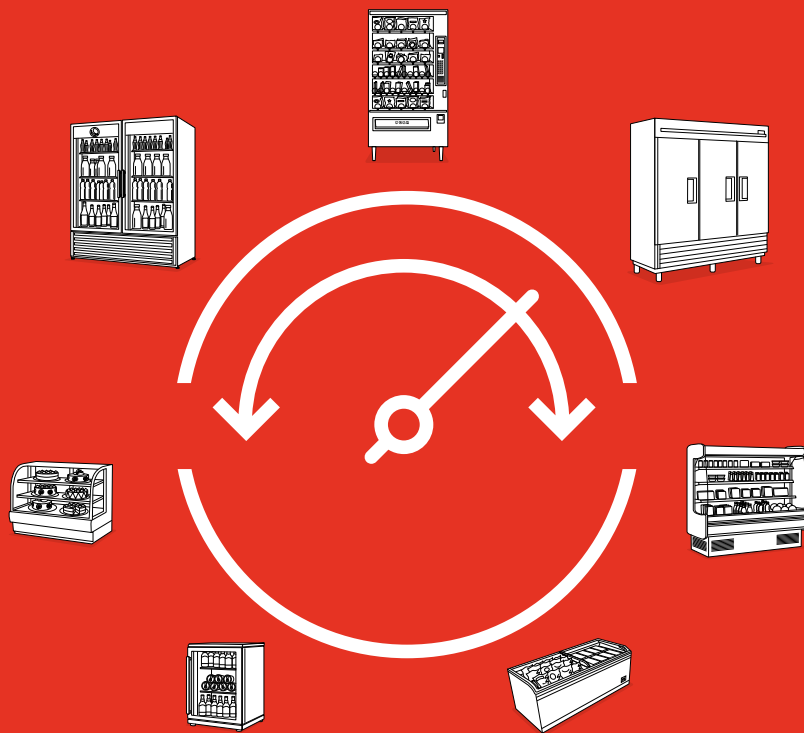


Secop is the first choice for partners looking for leading-edge refrigeration solutions and a premium customer experience.

Secop delivers advanced refrigeration compressors and controls, providing customers tailored sustainable solutions for light commercial, battery-driven, and special cooling applications.

VARIABLE-SPEED DRIVE COMPRESSORS

SECCOP

R290 Propane

Energy savings of up to 40% compared to a fixed speed R404A compressor

100-127 V | 208/220-240 V | 50/60 Hz

Intelligent variable-speed drive °CCD controllers partly with automatic input detection and IP54 housing and easy customization via TOOL4COOL®



Stationary
Cooling



Natural
Refrigerant



NLV-Series · R290 · 100-240 V · 220-240 V · 50/60 Hz

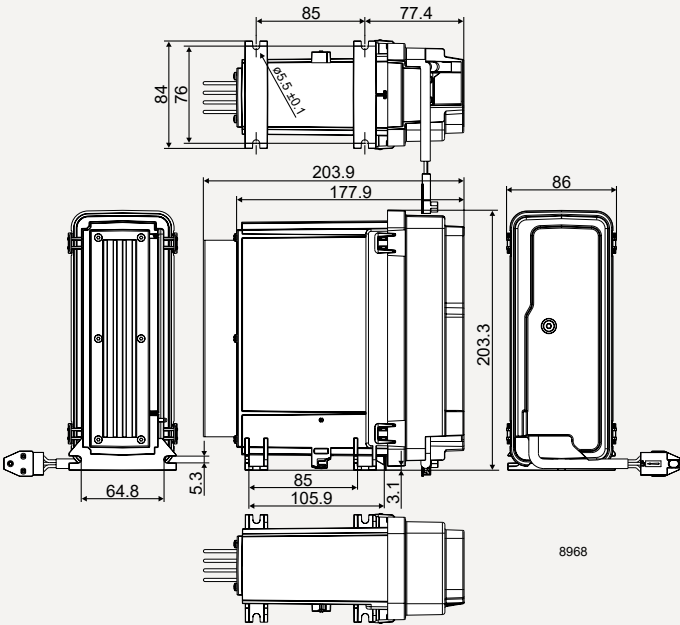
Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement [cm³]	Voltage and frequencies (dual frequency type with 50/60 Hz)
									LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C			
									Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP		
			-35	-15	-5	0	10	15	[W]	[W/W]	[W]	[W/W]	[W]	[W/W]		
NLV8.0CN 2000 rpm	105H7808	L/MBP	150	388	584	703	–	–	265	1.73	489	2.26	804	3.23	7.96	90-270 V, 50/60 Hz
NLV8.0CN 4500 rpm	105H7808	L/MBP	306	826	1252	1510	–	–	558	1.72	1049	2.29	1731	3.14	7.96	90-270 V, 50/60 Hz
NLV10CN 2000 rpm	105H7003	L/MBP	203	509	758	907	–	–	352	1.74	636	2.20	1031	3.08	10.09	90-270 V, 50/60 Hz
NLV10CN 4500 rpm	105H7003	L/MBP	419	1085	1617	1941	–	–	749	1.76	1357	2.22	2217	2.93	10.09	90-270 V, 50/60 Hz
NLV12.6CN 2000 rpm	105H6365	L/MBP	246	605	897	1076	–	–	422	1.68	753	2.17	1230	2.86	12.55	180-270 V, 50/60 Hz
NLV12.6CN 4500 rpm	105H6365	L/MBP	528	1344	1995	2393	–	–	938	1.66	1675	2.05	2736	2.62	12.55	180-270 V, 50/60 Hz
NLV15CN 2000 rpm	105H7520	L/MBP	316	704	1035	1245	–	–	505	1.59	869	2.02	1435	2.79	14.6	180-270 V, 50/60 Hz
NLV15CN 5000 rpm	105H7520	L/MBP	792	1553	2223	2640	–	–	1150	1.51	1875	1.94	2988	2.52	14.6	180-270 V, 50/60 Hz
NLV8.0CN 2000 rpm	105H7809	L/MBP	150	388	584	703	–	–	265	1.73	489	2.26	804	3.23	7.96	90-270 V, 50/60 Hz
NLV8.0CN 4500 rpm	105H7809	L/MBP	306	826	1252	1510	–	–	558	1.72	1049	2.29	1731	3.14	7.96	90-270 V, 50/60 Hz
NLV10CN 2000 rpm	105H7004	L/MBP	203	509	758	907	–	–	352	1.74	636	2.20	1031	3.08	10.09	90-270 V, 50/60 Hz
NLV10CN 4500 rpm	105H7004	L/MBP	419	1085	1617	1941	–	–	749	1.76	1357	2.22	2217	2.93	10.09	90-270 V, 50/60 Hz
NLV12.6CN 2000 rpm	105H6366	L/MBP	246	605	897	1076	–	–	422	1.68	753	2.17	1230	2.86	12.55	180-270 V, 50/60 Hz
NLV12.6CN 4500 rpm	105H6366	L/MBP	528	1344	1995	2393	–	–	938	1.66	1675	2.05	2736	2.62	12.55	180-270 V, 50/60 Hz

● Preliminary data, NLV15CN will be introduced in 2025

NLV-Series Multi Purpose (MP) Controllers

Compressor	Code number	NLV 105N4910	NLV 105N4960	NLV 105N4962
		Standard, PFC	Multi Voltage, PFC	Multi Voltage, PFC, US GFCI-Conformity
		Voltage range: 180-270 V, 50/60 Hz	Voltage range: 90-270 V, 50/60 Hz	Voltage range: 90-270 V, 50/60 Hz
		Inputs: Thermostat, defrost, frequency signal, serial, 2 relays	Inputs: Thermostat, defrost, frequency signal, serial, 2 relays	Inputs: Thermostat, defrost, frequency signal, serial, 2 relays
NLV8.0CN	105H7808	✓	✓	✓
NLV10CN	105H7003	✓	✓	✓
NLV12.6CN	105H6365	✓	✓	✓
NLV15CN	105H7520	–	–	–
NLV8.0CN	105H7809	✓	✓	✓
NLV10CN	105H7004	✓	✓	✓
NLV12.6CN	105H6366	✓	✓	✓

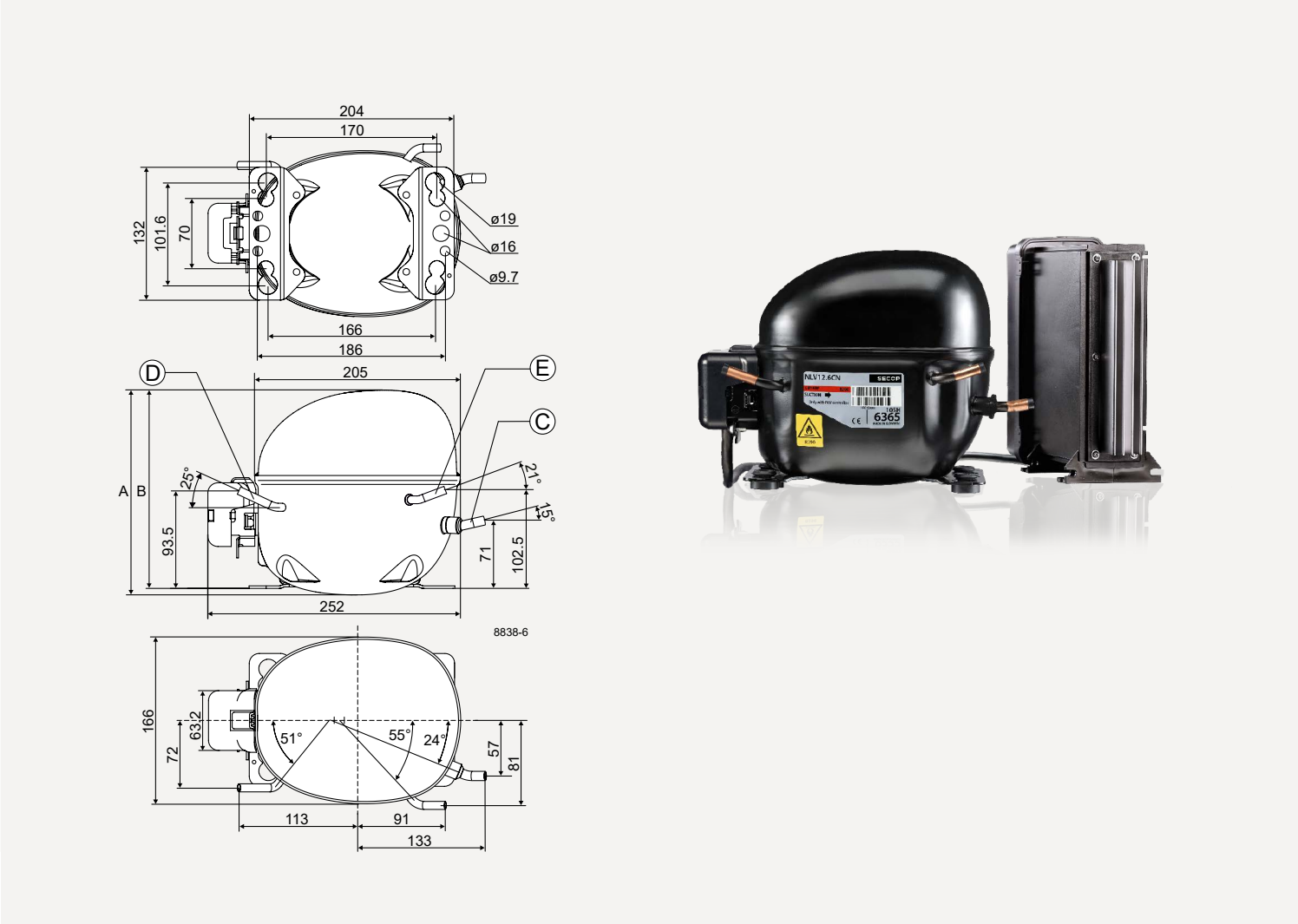
Compressor	Code number	NLV 105N4914	NLV 105N4964	NLV 105N4966
		Standard, PFC	Multi Voltage, PFC	Multi Voltage, PFC, US GFCI-Conformity
		Voltage range: 180-270 V, 50/60 Hz	Voltage range: 90-270 V, 50/60 Hz	Voltage range: 90-270 V, 50/60 Hz
		Inputs: Thermostat, defrost, frequency signal, serial, 2 relays	Inputs: Thermostat, defrost, frequency signal, serial, 2 relays	Inputs: Thermostat, defrost, frequency signal, serial, 2 relays
NLV8.0CN	105H7808	–	–	–
NLV10CN	105H7003	–	–	–
NLV12.6CN	105H6365	–	–	–
NLV15CN	105H7520	✓	✓	✓
NLV8.0CN	105H7809	–	–	–
NLV10CN	105H7004	–	–	–
NLV12.6CN	105H6366	–	–	–



NLV-Series Multi Purpose (MP) Controllers

Power	Compressor Cooling (refer to data sheet)	CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF						Dimensions					Connection		
								LBP rating point -25°C / 55°C		MBP rating point -10°C / 55°C		HBP rating point 5°C / 55°C		Height [mm]		Connectors location/I.D. [mm]			Cord relief	Cover	
		Cooling capacity [W]	COP [W/W]	Cooling capacity [W]	COP [W/W]	Cooling capacity [W]	COP [W/W]	A [I.D.]	B [I.D.]	Suction C [I.D.]	Process D [I.D.]	Dis-charge E [I.D.]									
[HP]		-35	-15	-5	0	10	15														
1/4	F2	122	314	471	566	–	–	198	1.34	387	1.88	673	2.71	203	197	8.20	6.20	6.20	–	103N2008	
1/2	F2	248	667	1010	1216	–	–	415	1.33	827	1.91	1446	2.67	203	197	8.20	6.20	6.20	–	103N2008	
1/3	F2	165	412	612	732	–	–	264	1.35	505	1.84	865	2.59	203	197	8.20	6.20	6.20	–	103N2008	
3/4	F2	340	878	1306	1565	–	–	560	1.37	1077	1.87	1856	2.51	203	197	8.20	6.20	6.20	–	103N2008	
3/8	F2	199	489	723	867	–	–	316	1.30	598	1.81	1028	2.44	203	197	8.20	6.20	6.20	–	103N2008	
5/6	F2	426	1086	1609	1927	–	–	703	1.29	1329	1.73	2287	2.25	203	197	8.20	6.20	6.20	–	103N2008	
1/2	F2	260	571	836	1004	–	–	384	1.25	692	1.69	1196	2.37	203	197	8.20	6.20	6.20	–	103N2008	
1	F2	653	1264	1804	2138	–	–	886	1.18	1512	1.62	2516	2.17	203	197	8.20	6.20	6.20	–	103N2008	
1/4	F2	122	314	471	566	–	–	198	1.34	387	1.88	673	2.71	203	197	8.20	6.50	6.50	–	103N2008	
1/2	F2	248	667	1010	1216	–	–	415	1.33	827	1.91	1446	2.67	203	197	8.20	6.50	6.50	–	103N2008	
1/3	F2	165	412	612	732	–	–	264	1.35	505	1.84	865	2.59	203	197	8.20	6.50	6.50	–	103N2008	
3/4	F2	340	878	1306	1565	–	–	560	1.37	1077	1.87	1856	2.51	203	197	8.20	6.50	6.50	–	103N2008	
3/8	F2	199	489	723	867	–	–	316	1.30	598	1.81	1028	2.44	203	197	8.20	6.50	6.50	–	103N2008	
5/6	F2	426	1086	1609	1927	–	–	703	1.29	1329	1.73	2287	2.25	203	197	8.20	6.50	6.50	–	103N2008	

NLV-Series Multi Purpose (MP) Controllers



NLV-Series · R290 · 100-240 V · 50/60 Hz																
Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement	Voltage and frequencies (dual frequency type with 50/60 Hz)
									LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C			
			-35	-15	-5	0	10	15	Cooling capacity [W]	COP [W/W]	Cooling capacity [W]	COP [W/W]	Cooling capacity [W]	COP [W/W]	[cm³]	
NLV8.0CN 2000 rpm	105H7808	L/MBP	150	388	584	703	–	–	265	1.73	489	2.26	804	3.23	7.96	90-270 V, 50/60 Hz
NLV8.0CN 4500 rpm	105H7808	L/MBP	306	826	1252	1510	–	–	558	1.72	1049	2.29	1731	3.14	7.96	90-270 V, 50/60 Hz
NLV10CN 2000 rpm	105H7003	L/MBP	203	509	758	907	–	–	352	1.74	636	2.20	1031	3.08	10.09	90-270 V, 50/60 Hz
NLV10CN 4500 rpm	105H7003	L/MBP	419	1085	1617	1941	–	–	749	1.76	1357	2.22	2217	2.93	10.09	90-270 V, 50/60 Hz
NLV12.6CN 2000 rpm	105H6365	L/MBP	246	605	897	1076	–	–	422	1.68	753	2.17	1230	2.86	12.55	180-270 V, 50/60 Hz
NLV12.6CN 4500 rpm	105H6365	L/MBP	528	1344	1995	2393	–	–	938	1.66	1675	2.05	2736	2.62	12.55	180-270 V, 50/60 Hz
NLV8.0CN 2000 rpm	105H7809	L/MBP	150	388	584	703	–	–	265	1.73	489	2.26	804	3.23	7.96	90-270 V, 50/60 Hz
NLV8.0CN 4500 rpm	105H7809	L/MBP	306	826	1252	1510	–	–	558	1.72	1049	2.29	1731	3.14	7.96	90-270 V, 50/60 Hz
NLV10CN 2000 rpm	105H7004	L/MBP	203	509	758	907	–	–	352	1.74	636	2.20	1031	3.08	10.09	90-270 V, 50/60 Hz
NLV10CN 4500 rpm	105H7004	L/MBP	419	1085	1617	1941	–	–	749	1.76	1357	2.22	2217	2.93	10.09	90-270 V, 50/60 Hz
NLV12.6CN 2000 rpm	105H6366	L/MBP	246	605	897	1076	–	–	422	1.68	753	2.17	1230	2.86	12.55	180-270 V, 50/60 Hz
NLV12.6CN 4500 rpm	105H6366	L/MBP	528	1344	1995	2393	–	–	938	1.66	1675	2.05	2736	2.62	12.55	180-270 V, 50/60 Hz

Compressor

Code number

NLV8.0CN	105H7808	✓
NLV10CN	105H7003	✓
NLV12.6CN	105H6365	✓
NLV8.0CN	105H7809	✓
NLV10CN	105H7004	✓
NLV12.6CN	105H6366	✓

NLV
105N4866
Multi Voltage, PFC

Voltage range:
90-270 V, 50/60 Hz

Inputs:
Serial, integrated temp. controller,
4 digital/analog I/O,
8 relays

85 80.6 84 76 207.1 181.1 94.3 203.2 64.8 5.3 85 105.9 3.1 8968-2

Power	Compressor Cooling (refer to data sheet)	CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF						Dimensions					Connection	
		LBP rating point -25°C / 55°C						MBP rating point -10°C / 55°C		HBP rating point 5°C / 55°C				Height [mm]		Connectors location/I.D. [mm]			Cord relief	Cover
		-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			Suction	Process	Dis-charge		
[HP]								[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	A (I.D.)	B (I.D.)	C (I.D.)	D (I.D.)	E (I.D.)		
1/4	F2	122	314	471	566	–	–	198	1.34	387	1.88	673	2.71	203	197	8.20	6.20	6.20	–	103N2008
1/2	F2	248	667	1010	1216	–	–	415	1.33	827	1.91	1446	2.67	203	197	8.20	6.20	6.20	–	103N2008
1/3	F2	165	412	612	732	–	–	264	1.35	505	1.84	865	2.59	203	197	8.20	6.20	6.20	–	103N2008
3/4	F2	340	878	1306	1565	–	–	560	1.37	1077	1.87	1856	2.51	203	197	8.20	6.20	6.20	–	103N2008
3/8	F2	199	489	723	867	–	–	316	1.30	598	1.81	1028	2.44	203	197	8.20	6.20	6.20	–	103N2008
5/6	F2	426	1086	1609	1927	–	–	703	1.29	1329	1.73	2287	2.25	203	197	8.20	6.20	6.20	–	103N2008
1/4	F2	122	314	471	566	–	–	198	1.34	387	1.88	673	2.71	203	197	8.20	6.50	6.50	–	103N2008
1/2	F2	248	667	1010	1216	–	–	415	1.33	827	1.91	1446	2.67	203	197	8.20	6.50	6.50	–	103N2008
1/3	F2	165	412	612	732	–	–	264	1.35	505	1.84	865	2.59	203	197	8.20	6.50	6.50	–	103N2008
3/4	F2	340	878	1306	1565	–	–	560	1.37	1077	1.87	1856	2.51	203	197	8.20	6.50	6.50	–	103N2008
3/8	F2	199	489	723	867	–	–	316	1.30	598	1.81	1028	2.44	203	197	8.20	6.50	6.50	–	103N2008
5/6	F2	426	1086	1609	1927	–	–	703	1.29	1329	1.73	2287	2.25	203	197	8.20	6.50	6.50	–	103N2008

NLV

204 170 132 101.6 70 166 186 205 252 166 72 63.2 51° 55° 24° 57 81 113 91 133 8838-6

Photograph of the NLV compressor unit.

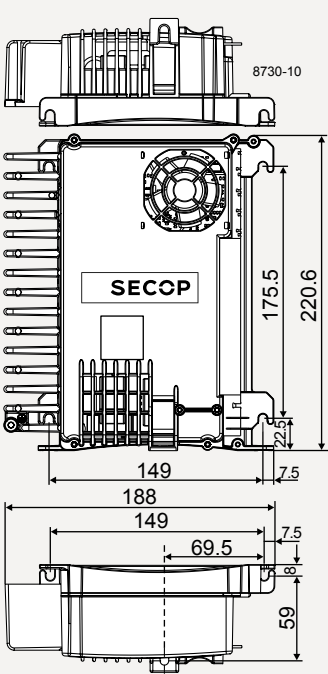
SLV- / SLVE-Series · R290 · 110-120 V · 220-240 V · 208-240 V · 50/60 Hz

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement	Voltage and frequencies (dual frequency type with 50/60 Hz)
									LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C			
									Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP		
			-35	-15	-5	0	10	15	[W]	[W/W]	[W]	[W/W]	[W]	[W/W]		
SLV15CNK 2000 rpm	104H8578	LBP	232	665	–	–	–	–	446	1.31	–	–	–	–	15.28	95-135 V, 50/60 Hz
SLV15CNK 4000 rpm	104H8578	LBP	438	1297	–	–	–	–	888	1.42	–	–	–	–	15.28	95-135 V, 50/60 Hz
SLV15CNK.2 2000 rpm	104H8541	LBP	232	665	–	–	–	–	446	1.32	–	–	–	–	15.28	180-254 V, 50/60 Hz
SLV15CNK.2 4000 rpm	104H8541	LBP	438	1297	–	–	–	–	888	1.42	–	–	–	–	15.28	180-254 V, 50/60 Hz
SLVE18CN 2200 rpm	104H8841	L/MBP	353	964	1427	1708	2384	–	666	1.73	1199	2.21	1947	3.08	17.69	180-270 V, 50/60 Hz
SLVE18CN 4500 rpm	104H8841	L/MBP	631	1726	2554	3057	4268	–	1192	1.67	2146	2.14	3485	2.98	17.69	180-270 V, 50/60 Hz

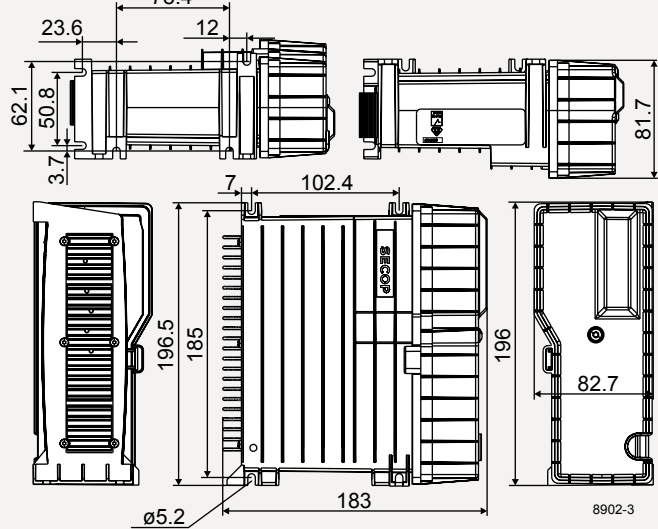
SLV- / SLVE-Series Controllers

Compressor	Code number	SLV	SLV	SLVE
		105N467x Series General Purpose, PFC	105N46xx Series General Purpose, PFC	105N47xx Series Standard, PFC
		Voltage range: 95-135 V, 50/60 Hz	Voltage range: 180-254 V, 50/60 Hz	Voltage range: 180- 270 V, 50/60 Hz
		Inputs: Modbus, integrated temp. controller	Inputs: Modbus, integrated temp. controller	Inputs: Thermostat, defrost, communication, frequency signal
SLV15CNK	104H8578	✓	-	-
SLV15CNK.2	104H8541	-	✓	-
SLVE18CN	104H8841	-	-	✓

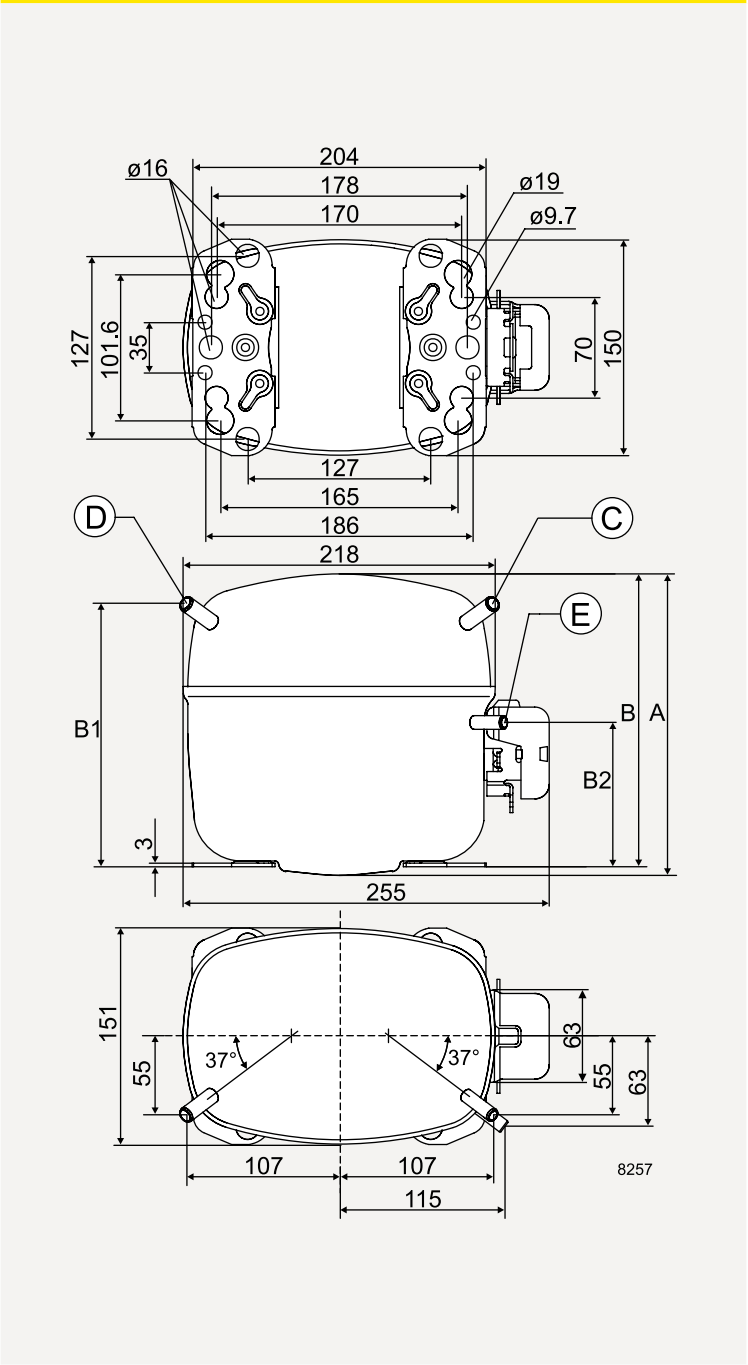
105N46xx Series



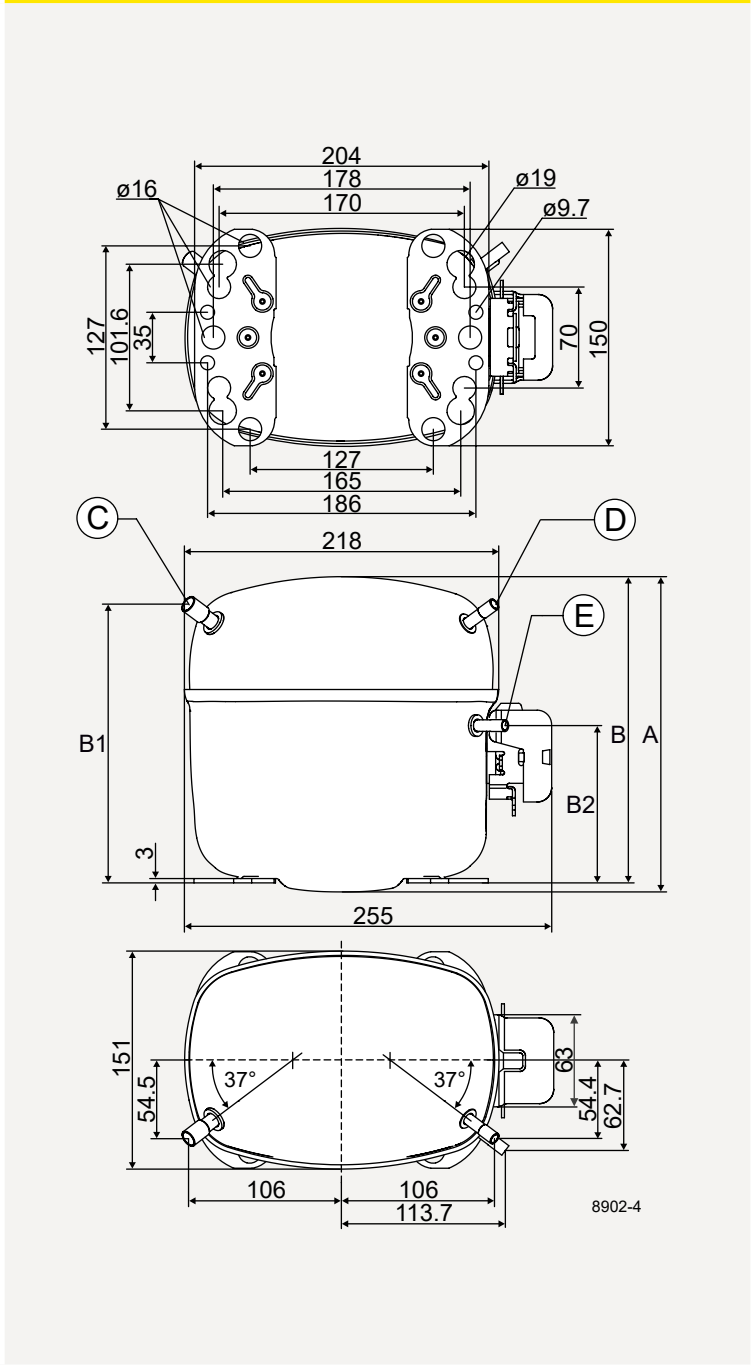
105N47xx Series



SLV



SLVE



SLVE-Series · R290 · 100-240 V · 50/60 Hz																
Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement	Voltage and frequencies [dual frequency type with 50/60 Hz]
									LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C			
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP		
			[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]							
SLVE18CN 2200 rpm	104H8841	L/MBP	353	964	1427	1708	2384	–	666	1.73	1199	2.21	1947	3.08	17.69	100-240 V, 50/60 Hz
SLVE18CN 4500 rpm	104H8841	L/MBP	631	1726	2554	3057	4268	–	1192	1.67	2146	2.14	3485	2.98	17.69	100-240 V, 50/60 Hz

SLVE-Series Multi Purpose (MP) Controllers

(available in 2025)

Compressor	Code number	SLVE 105N4930	SLVE 105N4932
		Multi Voltage, PFC	Multi Voltage, PFC, US GFCI-Conformity
		Voltage range: 90-270 V, 50/60 Hz	Voltage range: 90-270 V, 50/60 Hz
		Inputs: Thermostat, defrost, frequency signal, serial, 2 relays	Inputs: Thermostat, defrost, frequency signal, serial, 2 relays
SLVE18CN	104H8841	–	✓

Technical drawings of the SLVE18CN compressor showing various views and dimensions. The drawings include a top view, a side view, and a front view. Key dimensions include: 85, 77.4, 84, 76, 203.9, 177.9, 86, 203.3, 64.8, 5.3, 85, 105.9, 3.1, 8968, 8902-4.

Power [HP]	Compressor Cooling (refer to data sheet)	CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF						Dimensions					Connection	
		LBP rating point -25°C / 55°C						MBP rating point -10°C / 55°C		HBP rating point 5°C / 55°C				Height [mm]		Connectors location/I.D. [mm]			Cord relief	Cover
		-35	-15	-5	0	10	15	Cooling capacity [W]	COP [W/W]	Cooling capacity [W]	COP [W/W]	Cooling capacity [W]	COP [W/W]	A (I.D.)	B (I.D.)	Suction C (I.D.)	Process D (I.D.)	Dis-charge E (I.D.)		
3/5	F2	285	780	1152	1377	1916	–	497	1.34	954	1.85	1631	2.6	219	213	10.20	6.20	6.20	–	103N2008
1 1/4	F2	510	1396	2063	2466	3430	–	889	1.29	1708	1.79	2920	2.51	219	213	10.20	6.20	6.20	–	103N2008

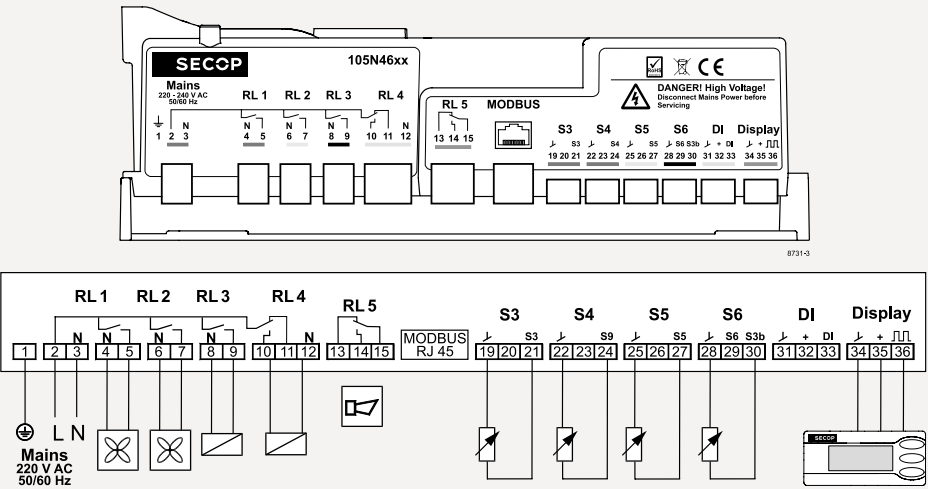
SLVE

Technical drawings of the SLVE compressor showing various views and dimensions. The drawings include a top view, a side view, and a front view. Key dimensions include: 204, 178, 170, 127, 101.6, 35, 127, 165, 186, 150, 70, 150, 218, 255, 151, 54.5, 37°, 106, 106, 113.7, 68, 54.4, 62.7, 8902-4.

Photograph of the SLVE18CN compressor unit, showing its compact design and various connection points.

LST - 105N46xx Series Controller, 220-240 V, 50/60 Hz, with PFC

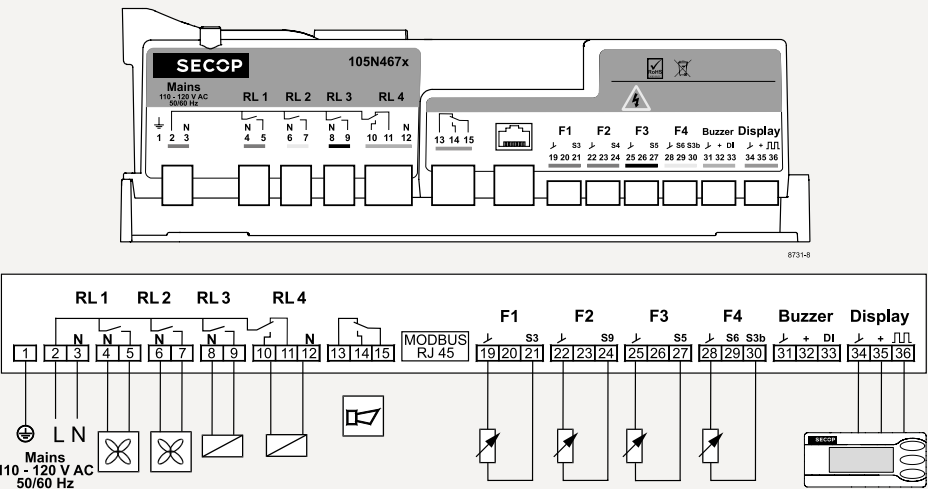
SLV PFC = power factor correction according to EN 61000-3-2:201



- Mains red
- RL 1 blue
- RL 2 yellow
- RL 3 black
- RL 4 grey
- RL 5 green
- S3 red
- S4 blue
- S5 yellow
- S6 black
- DI grey
- Display green

LST - 105N46xx Series Controller, 110-120 V, 50/60 Hz, with PFC

SLV PFC = power factor correction according to EN 61000-3-2:2014

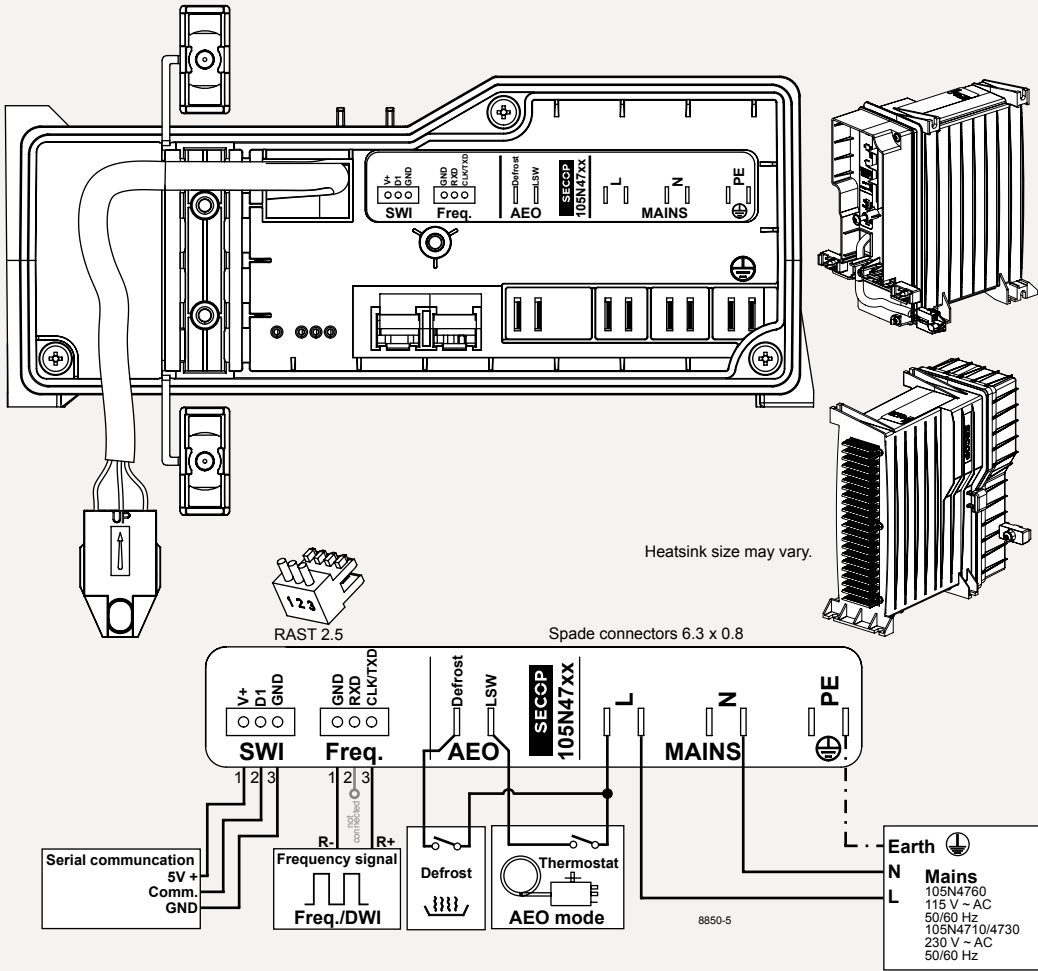


- Mains red
- RL 1 blue
- RL 2 yellow
- RL 3 black
- RL 4 grey
- green
- F1 red
- F2 blue
- F3 black
- F4 yellow
- Buzzer grey
- Display green

upper part of label: orange

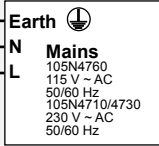
HST - 105N47xx Series Controllers

SLVE – electronic units 105N47xx (208-230 V, 50/60 Hz, with PFC) PFC = power factor correction according to EN 61000-3-2:2014



Heatsink size may vary.

Spade connectors 6.3 x 0.8



HST - 105N49xx Series Multipurpose (MP) Controllers

NLV – electronic unit 105N4910, 105N4914 (220-240 V, 50/60 Hz, with PFC)

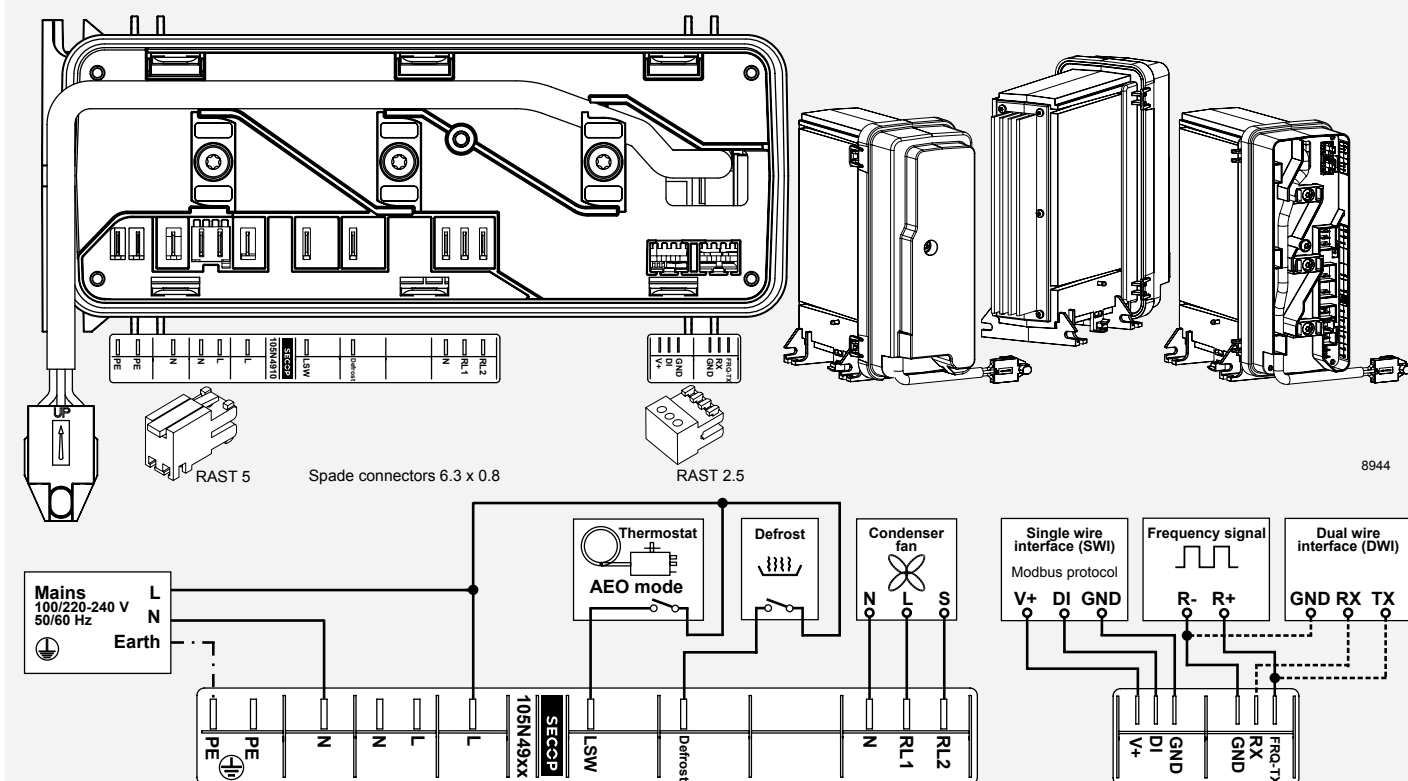
NLV – electronic unit 105N4960, 105N4964 (100-240 V, 50/60 Hz, with PFC)

NLV – electronic unit 105N4962, 105N4966 (100-240 V, 50/60 Hz, with PFC, US GFCI-Conformity)

SLVE – electronic unit 105N4930 (100-240 V, 50/60 Hz, with PFC) available in 2025

SLVE – electronic unit 105N4932 (100-240 V, 50/60 Hz, with PFC, US GFCI-Conformity) available in 2025

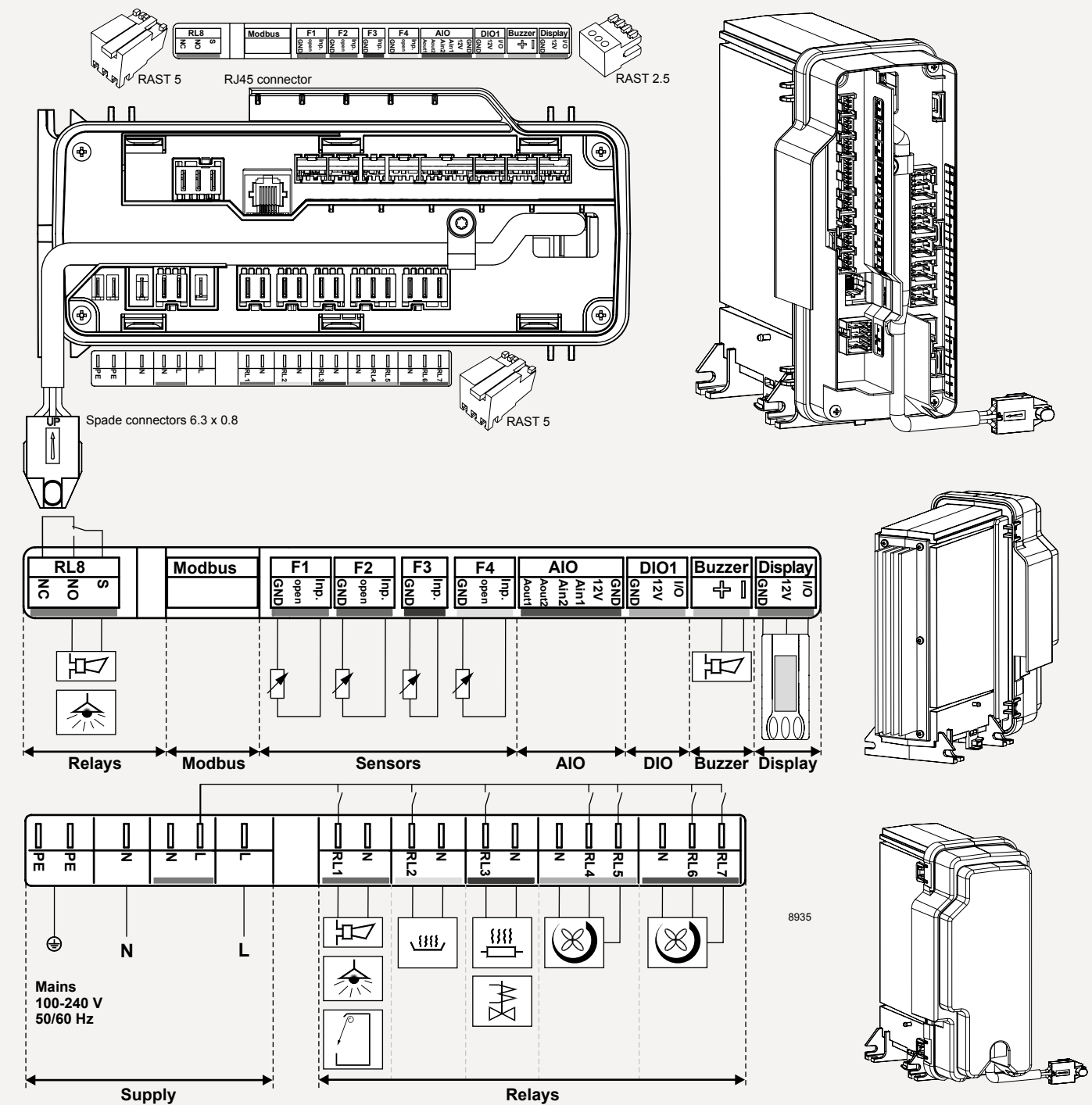
PFC = power factor correction
according to EN 61000-3-2:2014



HST - 105N48xx Series Extended (XT) Controllers

NLV – electronic unit 105N4866 (100-240 V, 50/60 Hz, with PFC)

PFC = power factor correction
according to EN 61000-3-2:2014



VARIABLE-SPEED °CCD CONTROLLERS (ELECTRONIC UNITS)

Operating at full capacity is extremely rare in most cooling applications, restricted to a just few days per year. That is why Secop has built variable-speed control into the DLV, NLV, SLV, and SLVE-Series. This unique technology makes capacity automatically adapt to your current requirement. The compressor runs at low speed most of the time, thus minimizing energy consumption. System efficiency is also greatly improved thanks to reduced loss when less heat is transferred via the evaporator and condenser. Overall, this equates to substantial energy savings.

Tool4Cool® is a unique PC software tool that enables you to precisely configure your Secop’s Cool Capacity Drive (°CCD) variable-speed compressors to your cooling systems.

The variable-speed compressor motors are electronically controlled. Starting the compressor without a complete electronic unit is not necessary, as specified in the data sheet for the compressor type in use. The °CCD electronic unit has built-in overload and thermal protection. When activated, the electronic unit protects the compressor motor and itself. The electronic unit also automatically restarts the compressor after a specified time. It provides the compressor with high starting torque (HST) so that system pressure does not need to be equalized before start. The compressors are equipped with permanent magnet rotors (PM motor) and three identical stator windings. The electronic unit (attached or detached) controls the PM motor.

Connecting the motor to AC power, by fault, will damage the magnets and lead to a system that runs either at drastically reduced efficiency or even not at all.

For more information on which starting device to use on individual compressors, please refer to the respective data sheets (some compressors have limitations for either LST or HST). and to our “Operating Instructions” and “Instructions”. The compressor application must factor in power supply from an electrical circuit with the appropriate fuse or circuit breaker. In addition, the use of a GFCI (Ground Fault Circuit Interrupter) or RCD (Residual Current Device) is recommended.

FLAMMABLE REFRIGERANT R290 (PROPANE)



R290 (propane) is a hydrocarbon. Hydrocarbon refrigerants are flammable and are only allowed for use in appliances that meet the requirements set out in the latest revision of EN/IEC 60335-2-34.

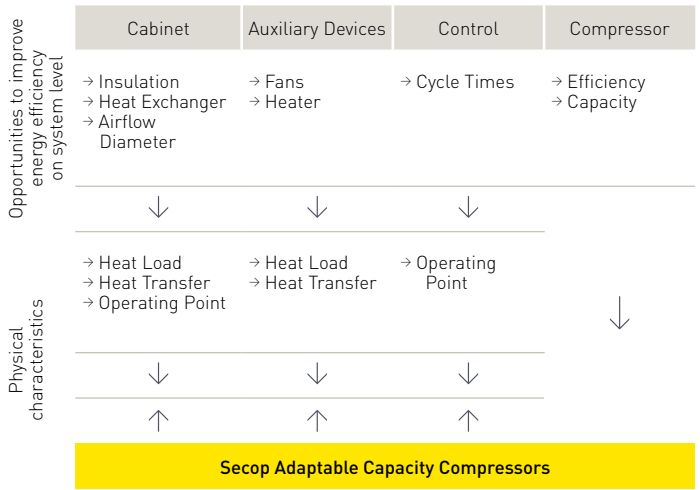
Do not use the refrigerant R290 near an open fire near. The refrigeration systems must be opened with a tube cutter.

To properly perform maintenance and repair work on R290 systems, service staff must be properly trained in handling flammable refrigerants. This includes knowledge of tools, transportation of the compressor and refrigerant, and the relevant regulations and safety precautions when carrying out service and repair work.

Secop compressors that use flammable refrigerant R290 are equipped with a yellow warning label as shown.

WHY CHOOSE VARIABLE-SPEED COMPRESSORS?

In general, a variable-speed drive compressor offers engineers far more options when it comes to building electronic systems and products. Altering the settings for each individual device built will result in efficiency gains that benefit both the business and customer, i.e. the initial investment might be slightly higher when using a compressor with an inverter, but the operating costs and therefore the total cost of ownership will be significantly lower. The return on investment is extremely quick especially in high priced energy markets.



Advantages of adaptable capacity

- Improved system efficiency thanks to higher t₀ and lower t_c — up to 40% energy savings
- Dynamic speed range from 1:4
- Adjustable cooling capacity for actual system demand
- Smaller compressor in terms of displacement and size
- Lower noise emission thanks to low speed — up to 5 dB(A)
- Released for rough applications, unstable power supply, and tropical regions
- Bi-frequency at 220-240 V 50/60 Hz and 100-127 V 50/60 Hz
- R290 models for commercial applications (LBP/MBP)
- High starting torque (HST) features — no pressure equalization required to start compressor

Same compressor type for different markets!

Conclusion: The most important advantage of adaptable capacity is reduced energy consumption, which can be achieved in different ways.

The easiest, most efficient, and cheapest way to reach this target is to use adaptable capacity compressors.

General: Secop adaptable capacity compressors enable users to adjust the refrigeration capacity according to the desired need by controlling the motor speed of the compressor and therefore the cycle times of the piston. The compressors have been highly optimized to offer excellent motor and mechanical efficiency. Tests have shown improvements in energy consumption of up to 40%, depending on the system design. The average noise level can be reduced by up to 5 dB(A). The compressors are small in volume which allows space for greater net volume for usage.

Targets: The aim of all refrigeration appliance design is to define and optimize the essential functions such as: minimal cost, high performance, and high efficiency, minimized compressor size to enable larger internal cabinet volume, low noise levels and stabilized cabinet temperature at different operation capacities.

TOOL4COOL® FLEXIBLE CONTROL SETTINGS

Optimum control and monitoring

Tool4Cool® is a unique PC software tool that enables you to precisely configure Secop variable-speed drive compressors (inverter) to your cooling systems. In addition to using Tool4Cool® to customise and optimize settings during development, it can also be used for remote control and monitoring of refrigeration circuit during operation.

Tool4Cool® retrieves and sends information to all controllers in the refrigeration system, including settings, temperature, and speed. This lets operators control and monitor their systems from a central station. With Tool4Cool®, service departments have a constant overview of cooling systems and can perform any trouble-shooting remotely. Technicians only need to visit the site if a component needs to be replaced, for example.

Software installation

Visit and download our Tool4Cool® page www.secop.com/tool4cool

Standalone system

- Optimize operation during development
- Alarm and event log readout
- Logging during development
- Download settings on the production line

Network system

- Easy monitoring and optimization
- Alarm log and event log
- Easy service

Mounting Accessories

Mounting	Code number	Bolt / pin dimension	Comp. base hole	Type of packaging	Compressor series	Parts list
Bolt joint	118-1917	M6 metric	16 mm	Single pack for one compressor	NLV- / SLV-Series	I
Bolt joint	118-1918	M6 metric	16 mm	Industrial pack in any quantity	NLV- / SLV-Series	I
Bolt joint	118-1958	M6 metric	16 mm	Single pack for one compressor	SLVE-Series	II
Bolt joint	118-1961	M6 metric	16 mm	Industrial pack in any quantity	SLVE-Series	II

Bolt joint	118-1946	1/4 inch	16 mm	Single pack for one compressor	NLV- / SLV-Series	III
Bolt joint	118-1949	1/4 inch	19 mm	Single pack for one compressor	all with 19 mm base holes	IV

Snap-on	118-1947	Ø 7.3 mm	16 mm	Single pack for one compressor	NLV- / SLV-Series	V
Snap-on	118-1919	Ø 7.3 mm	16 mm	Industrial pack in any quantity	NLV- / SLV-Series	V
Snap-on	118-1962	Ø 7.3 mm	16 mm	Industrial pack in any quantity	SLVE-Series	VI

Parts list (4 pcs. per compressor needed)			Symbol drawings	
I	Sleeve Ø 8 mm x 6.4 mm x 0.8 mm	112-2052		Bolt joint mounting
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053		
	Bolt M6 x 25 mm	681X1130		
	Nut M6	118-3659		
	Rubber grommet 16 mm	118-3661		
II	Sleeve Ø 8 mm x 6.4 mm x 0.8 mm	112-2052		Snap-on mounting
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053		
	Bolt M6 x 25 mm	681X1130		
	Nut M6	118-3659		
	Rubber grommet 16 mm	118-3670		
III	Sleeve Ø 8.3 mm x 6.7 mm x 0.8 mm	112-2088		
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053		
	Bolt 1/4 x 1 inch, 20 UNC	119-3002		
	Nut 1/4 inch, 20 UNC	119-3031		
	Rubber grommet 16 mm	118-3661		
IV	Sleeve Ø 9.5 mm x 7.9 mm x 0.8 mm	112-2085		
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053		
	Bolt 1/4 x 1 1/4 inch, 20 UNC	119-3002		
	Nut 1/4 inch, 20 UNC	119-3031		
	Rubber grommet 19 mm	118-3666		
V	Steel pin	118-3586		
	Washer Ø 21 x Ø 8.1 mm x 0.9 mm	118-3588		
	Clip	118-3585		
	Rubber Grommet 16 mm	118-3661		
VI	Steel pin	118-3586		
	Washer Ø 21 x Ø 8.1 mm x 0.9 mm	118-3588		
	Clip	118-3585		
	Rubber Grommet 16 mm	118-3670		

SECOPI GROUP: AROUND THE WORLD

SECOPI

12

international
partners for
advanced
developments

33

laboratories
located in Austria,
Germany, Slovakia,
China, U.S.A., and
Turkey

160

R&D engineers
and technicians

440

patents globally

50+

countries with
customer support



Secop is the expert for advanced hermetic compressor technologies and cooling solutions in commercial refrigeration. We develop high performance stationary and mobile cooling solutions for leading international commercial refrigeration manufacturers and are the first choice when it comes to leading hermetic compressors and electronic controls for refrigeration solutions for light commercial and DC-powered applications.

Secop was formerly known as Danfoss Compressors and is one of the founding fathers of modern compressor technology with years of experience that goes back to the beginning of the 1950s.



Flensburg: Sales and R&D



Turin: Sales



Gleisdorf: R&D



Zlaté Moravce: R&D, Logistics, and Manufacturing



Tianjin: Sales, R&D, Logistics, and Manufacturing



Atlanta: Sales and Logistics



**Stationary
Cooling**



**Mobile
Cooling**



**Medical
Cooling**



Secop GmbH · Lise-Meitner-Str. 29 · 24941 Flensburg, Germany · Tel: +49 461 4941 0 · www.secop.com

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

Produced by Secop | December 2024

DES.B.300.B5.02