

WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.



HERMETIC VARIABLE-SPEED DRIVE COMPRESSORS FOR AC VOLTAGE

R600a | R290
100-127 V • 220-240 V • 50/60 Hz



R600a • 220-240 V • 100-127 V • 50/60 Hz • X-Series

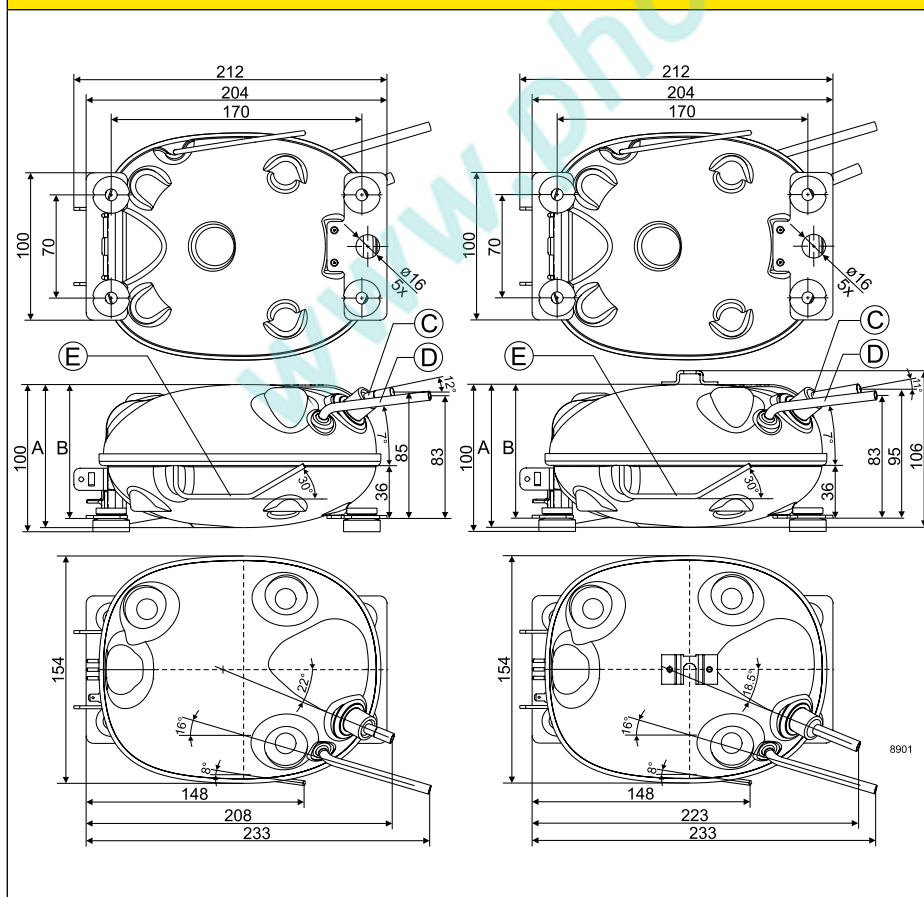
Compressor	Code number	Application	CECOMAF Capacity [W] T _c =55°C, T _{liq} =55°C, T _{suc} =32°C Evaporating temperature [°C]						CECOMAF						ASHRAE Capacity [W] T _c =54.4°C, T _{liq} =32.2°C, T _{suc} =32.2°C Evaporating temperature [°C]					
									LBP rating point -25°C / 55°C		MBP rating point -10°C / 55°C		HBP rating point 5°C / 55°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]	-35	-15	-5	0	10	15
XV5.0KX 1000 rpm	108H5012	LBP	8	29	43	50		16	1.29	36	1.99			10	36	54	63			
XV5.0KX 4000 rpm	108H5012	LBP	34	127	196	230		67	1.28	161	1.89			41	155	240	281			
XV5.0KX 1000 rpm	108H5013	L/MBP	8	29	43	50		16	1.29	36	1.99	56	2.70	10	36	54	63			
XV5.0KX 4000 rpm	108H5013	L/MBP	34	127	196	230		67	1.28	161	1.89	259	2.45	41	155	240	281			
XV5.0KX 1000 rpm	108H5014	L/MBP	8	29	43	50		16	1.35	36	2.06	56	2.77	10	36	54	63			
XV5.0KX 4000 rpm	108H5014	L/MBP	34	127	196	230		67	1.38	161	1.92			41	155	240	281			
XV5.0KX 1000 rpm	108H5015	L/MBP	8	29	43	50		16	1.29	36	1.99			10	36	54	63			
XV5.0KX 4000 rpm	108H5015	L/MBP	34	127	196	230		67	1.28	161	1.89			41	155	240	281			
XV7.2KX 1000 rpm	108H7210	LBP	17	52	87	107		28	1.39	69	2.12			21	64	106	131			
XV7.2KX 4000 rpm	108H7210	LBP	62	192				106	1.31	247	1.92			76	236					
XV7.2KX 1000 rpm	108H7211	LBP	17	52	87	107		28	1.39	69	2.12			21	64	106	131			
XV7.2KX 4000 rpm	108H7211	LBP	62	192				106	1.31	247	1.92			76	236					
XV7.2KX 1000 rpm	108H7214	LBP	17	52	87	107		28	1.40	69	2.14			21	64	106	131			
XV7.2KX 4000 rpm	108H7214	LBP	62	192				106	1.28	247	1.85			76	236					
XVL7.2KX 1000 rpm	108H7230	LBP	15	54	84	102		32	1.29	68	1.70			19	66	103	125			
XVL7.2KX 4000 rpm	108H7230	LBP	54	192				113	1.35	241	1.80			67	235					
XV8.0KX 1000 rpm	108H7710	LBP	17	57	87	101		32	1.40	72	2.14			21	70	106	123			
XV8.0KX 4000 rpm	108H7710	LBP	65	214				122	1.33	270	1.94			80	261					
XV8.0KX 1000 rpm	108H7712	LBP	17	57	87	101		32	1.40	72	2.14			21	70	106	123			
XV8.0KX 4000 rpm	108H7712	LBP	65	214				122	1.33	270	1.94			80	261					
XV8.0KX 1000 rpm	108H7714	LBP	17	57	87	101		32	1.41	72	2.16			21	70	106	123			
XV8.0KX 4000 rpm	108H7714	LBP	65	214				122	1.30	270	1.86			80	261					
XVL8.0KX 1000 rpm	108H7730	LBP	17	58	90	110		34	1.29	73	1.72			20	71	110	135			
XVL8.0KX 4000 rpm	108H7730	LBP	57	202				119	1.34	253	1.77			71	246					

R600a • 220-240 V • 100-127 V • 50/60 Hz • X-Series • Controller

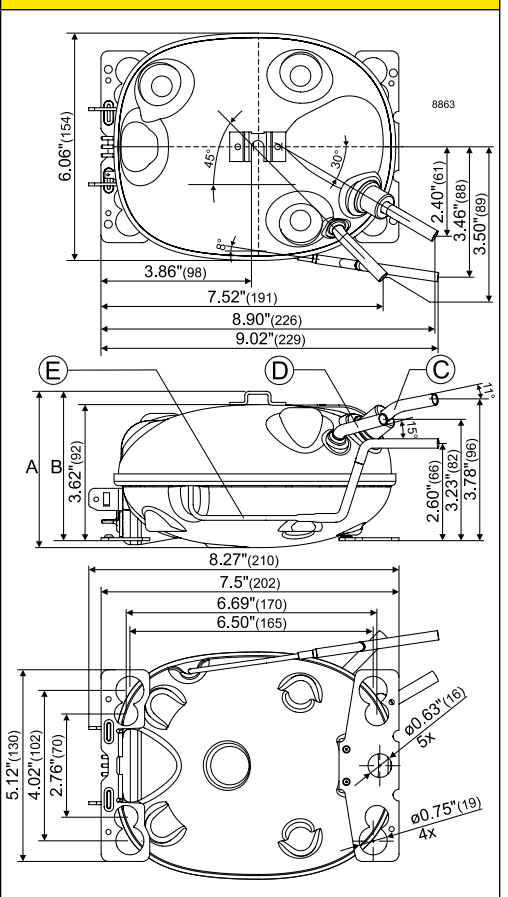
Compressor	Code number	XV-AEO/Freq. 105N5022 Attached	XV-Frequency 105N5052 Detached	XV-AEO/Freq. 105N5320 Attached, PFC	XV-AEO/Freq. 105N5312 Attached	XV-Frequency 105N5150 Detached	XVL-AEO/Freq. 105N5324 Attached, PFC
		Voltage range: 160 - 264 V, 50/60 Hz	Voltage range: 160 - 264 V, 50/60 Hz	Voltage range: 160 - 264 V, 50/60 Hz	Voltage range: 90 - 135 V, 50/60 Hz	Voltage range: 90 - 135 V, 50/60 Hz	Voltage range: 160 - 264 V, 50/60 Hz
		Inputs: Thermostat, Modbus, frequency signal	Input: Frequency signal	Inputs: Thermostat, Modbus, frequency signal	Inputs: Thermostat, Modbus, frequency signal	Input: Frequency signal	Inputs: Thermostat, Modbus, frequency signal
XV5.0KX	108H5012	✓	✓	✓			
XV5.0KX	108H5013	✓	✓	✓			
XV5.0KX	108H5014				✓	✓	
XV5.0KX	108H5015	✓	✓	✓			
XV7.2KX	108H7210	✓	✓	✓			
XV7.2KX	108H7211	✓	✓	✓			
XV7.2KX	108H7214				✓	✓	
XVL7.2KX	108H7230						✓
XV8.0KX	108H7710	✓	✓	✓			
XV8.0KX	108H7712	✓	✓	✓			
XV8.0KX	108H7714				✓	✓	
XVL8.0KX	108H7730						✓

ASHRAE						Power	Displacement	Voltage and frequencies [* dual frequency type with 50/60 Hz]	Compressor cooling [refer to data sheet]	Dimensions					alt. connectors available	Application
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						Height [mm]		Connectors location / diameter [mm]				
Cooling capacity [W]	COP	Cooling capacity [W]	COP	Cooling capacity [W]	COP					A	B	Suction C (I.D.)	Process D (I.D.)	Discharge E (O.D.) E (I.D.) *		
22	1.67	46	2.38			1/12	5.00	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 9
93	1.66	203	2.24			1/12	5.00	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 9
22	1.67	46	2.38			1/12	5.00	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 9
93	1.66	203	2.24			1/12	5.00	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 9
22	1.74	46	2.45	66	3.16	1/12	5.00	90-135 V, 60 Hz *	S	106	101	6.5	6.5	5.0 *		1 9
93	1.77	203	2.27			1/12	5.00	90-135 V, 60 Hz *	S	106	101	6.5	6.5	5.0 *		1 9
22	1.67	46	2.38			1/12	5.00	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 9
93	1.66	203	2.24			1/12	5.00	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 9
39	1.80	89	2.52			1/12	7.20	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 2
145	1.69					1/8	7.20	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 2
39	1.80	89	2.52			1/12	7.20	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 2
145	1.69					1/8	7.20	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 2
39	1.81	89	2.55			1/12	7.20	90-135 V, 60 Hz *	S	106	101	6.5	6.5	5.0 *		1 2
145	1.65					1/8	7.20	90-135 V, 60 Hz *	S	106	101	6.5	6.5	5.0 *		1 2
43	1.63	86	2.00			1/12	7.20	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2		1 2
153	1.72					1/7	7.20	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2		1 2
44	1.82	90	2.54			1/12	7.70	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 2
165	1.72					1/7	7.70	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 2
44	1.82	90	2.54			1/12	7.70	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 2
165	1.72					1/7	7.70	160-264 V, 50 Hz *	S	97	91	6.2	4.5	3.2	X	1 2
44	1.83	90	2.56			1/12	7.70	90-135 V, 60 Hz *	S	106	101	6.5	6.5	5.0 *		1 2
165	1.68					1/7	7.70	90-135 V, 60 Hz *	S	106	101	6.5	6.5	5.0 *		1 2
46	1.64	93	2.02			1/12	7.70	160-264 V, 50 Hz *	S	106	101	6.2	4.5	3.2		1 2
160	1.70					1/7	7.70	160-264 V, 50 Hz *	S	106	101	6.2	4.5	3.2		1 2

XV • 220-240 V • 50/60 Hz



XV • 100-127 V • 50/60 Hz



R290 • 220-240 V • 100-127 V • 50/60 Hz • DLV- / NLV- / SLV-Series

Compressor	Code number	Application	CECOMAF Capacity [W] T _c =55°C, T _{liq} =55°C, T _{suc} =32°C Evaporating temperature [°C]						CECOMAF						ASHRAE Capacity [W] T _c =54.4°C, T _{liq} =32.2°C, T _{suc} =32.2°C Evaporating temperature [°C]					
									LBP rating point -25°C / 55°C		MBP rating point -10°C / 55°C		HBP rating point 5°C / 55°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]	-35	-15	-5	0	10	15
DLV4.0CN 2000 rpm	102H3486	L/MBP	60	171	258	311		65	1.12	203	2.27	330	3.02	58	179	274	333			
DLV4.0CN 4500 rpm	102H3486	L/MBP	140	401	604	728		152	1.22	476	2.28	772	3.01	136	420	642	779			
DLV5.7CN 2000 rpm	102H4604	L/MBP	107	261	383	458		112	1.38	305	2.23	485	2.84	109	278	413	496			
DLV5.7CN 4500 rpm	102H4604	L/MBP	246	599	879	1052		258	1.32	700	2.13	1114	2.71	249	639	947	1138			
NLV8.0CN 2000 rpm	105H7800	L/MBP	141	365	544	652		148	1.42	431	2.35	688	3.01	150	388	584	703			
NLV8.0CN 4500 rpm	105H7800	L/MBP		795	1188	1423				941	2.29	1489	2.87		826	1252	1510			
NLV8.0CN 2000 rpm	105H7801	L/MBP	141	365	544	652		148	1.42	431	2.35	688	3.01	150	388	584	703			
NLV8.0CN 4500 rpm	105H7801	L/MBP		795	1188	1423				941	2.29	1489	2.87		826	1252	1510			
NLV10CN 2000 rpm	105H7000	L/MBP	188	472	696	830		195	1.42	555	2.29	878	2.89	203	509	758	907			
NLV10CN 4500 rpm	105H7000	L/MBP		1010	1496	1789				1188	2.20	1892	2.68		1085	1617	1941			
NLV10CN 2000 rpm	105H7001	L/MBP	188	472	696	830		195	1.42	555	2.29	878	2.89	203	509	758	907			
NLV10CN 4500 rpm	105H7001	L/MBP		1010	1496	1789				1188	2.20	1892	2.68		1085	1617	1941			
NLV12.6CN 2000 rpm	105H6355	L/MBP	242	575	846	1011		253	1.40	673	2.21	1059	2.70	246	605	897	1076			
NLV12.6CN 4500 rpm	105H6355	L/MBP		1278	1881	2248				1497	2.14	2354	2.49		1344	1995	2393			
NLV12.6CN 2000 rpm	105H6356	L/MBP	242	575	846	1011		253	1.40	673	2.21	1059	2.70	246	605	897	1076			
NLV12.6CN 4500 rpm	105H6356	L/MBP		1278	1881	2248				1497	2.14	2354	2.49		1344	1995	2393			
SLV15CNK.2 2000 rpm	104H8541	LBP	236	638				252	1.12	755	1.88			232	665					
SLV15CNK.2 4000 rpm	104H8541	LBP	460	1228				494	1.13	1435	1.86			438	1297					
SLV15CNK 2000 rpm	104H8578	LBP	236	638				252	1.10	755	1.87			232	665					
SLV15CNK 4000 rpm	104H8578	LBP	460	1228				494	1.12	1435	1.86			438	1297					

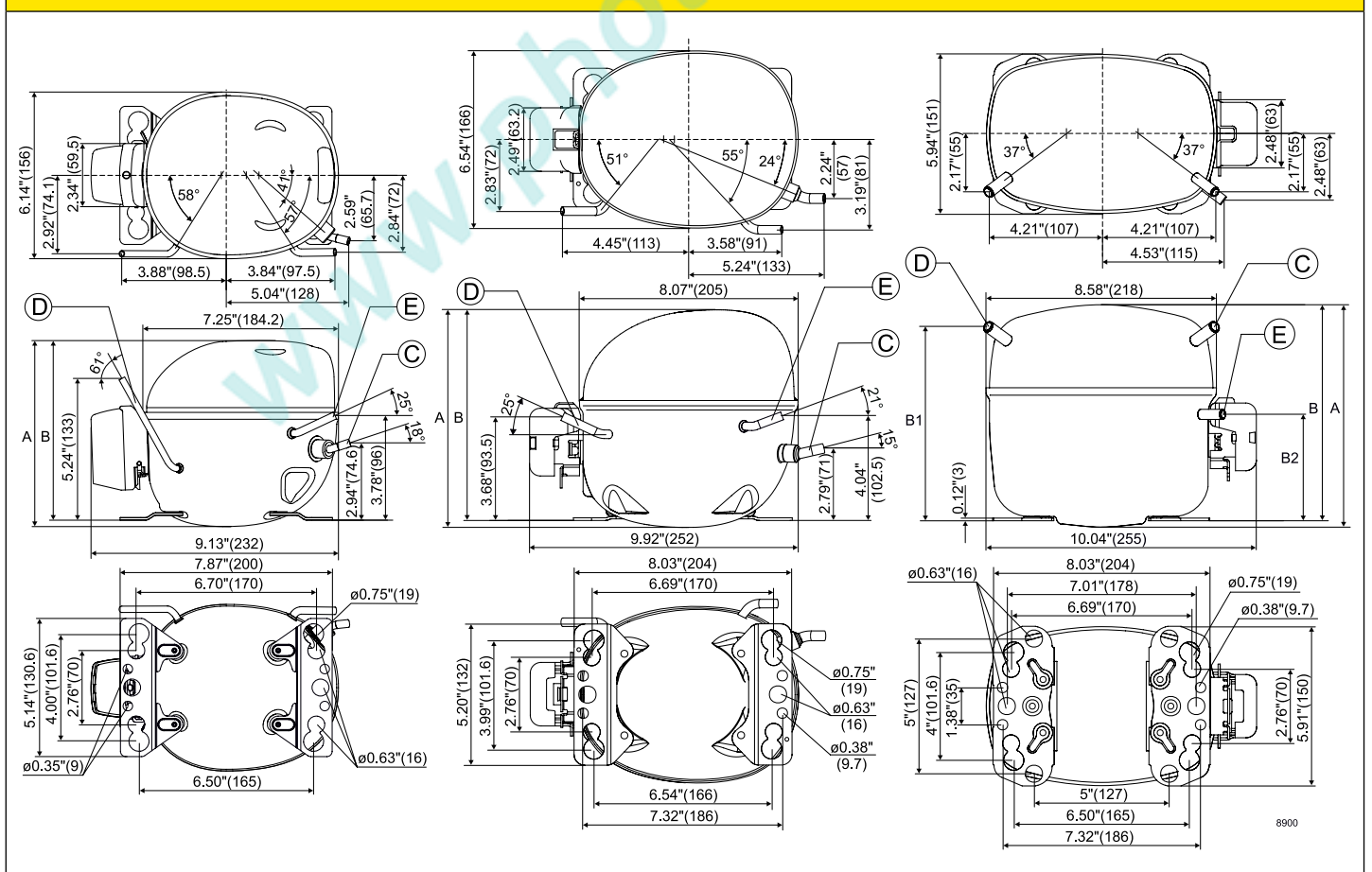
R290 • 220-240 V • 100-127 V • 50/60 Hz • DLV- / NLV- / SLV-Series • Controllers

Compressor	Code number	DLV	NLV	NLV	SLV	SLV
		105N4460	105N4710	105N4760	105N46xx Series	105N467x Series
		Standard	Standard, PFC	Multi Voltage, PFC	General Purpose, PFC	General Purpose, PFC
		Voltage range: 90 - 140 V, 50/60 Hz	Voltage range: 180 - 270 V, 50/60 Hz	Voltage range: 90 - 270 V, 50/60 Hz	Voltage range: 180 - 254 V, 50/60 Hz	Voltage range: 95 - 135 V, 50/60 Hz
Inputs: Thermostat, defrost, communication, frequency signal	Inputs: Thermostat, defrost, communication, frequency signal	Inputs: Thermostat, defrost, communication, frequency signal	Inputs: Modbus, integrated temperature controller	Inputs: Modbus, integrated temperature controller		
DLV4.0CN	102H3486	✓				
DLV5.7CN	102H4604	✓				
NLV8.0CN	105H7800		✓	✓		
NLV8.0CN	105H7801		✓	✓		
NLV10CN	105H7000		✓	✓		
NLV10CN	105H7001		✓	✓		
NLV12.6CN	105H6355		✓	✓		
NLV12.6CN	105H6356		✓	✓		
SLV15CNK.2	104H8541				✓	
SLV15CNK	104H8578					✓

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

ASHRAE						Power	Displacement	Voltage and frequencies [* dual frequency type with 50/60 Hz]	Compressor cooling (refer to data sheet)	Dimensions					alt. connectors available	Application
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						Height [mm]		Connectors location / diameter [mm]				
Cooling capacity [W]	COP	Cooling capacity [W]	COP	Cooling capacity [W]	COP					A	B	Suction C (I.D.)	Process D (I.D.)	Discharge E (I.D.)		
120	1.54	229	2.22	386	3.27	1/8	4.00	90-140 V, 60 Hz *	F2	175	169	8.2	6.5	6.5		1 2 3 4 6 10
280	1.58	537	2.22	904	3.25	3/10	4.00	90-140 V, 60 Hz *	F2	175	169	8.2	6.5	6.5		1 2 3 4 6 10
195	1.69	346	2.18	570	3.06	1/6	5.70	95-135 V, 60 Hz *	F2	175	169	8.2	6.5	6.5		1 2 3 4 6 10
446	1.61	795	2.08	1308	2.92	2/5	5.70	95-135 V, 60 Hz *	F2	175	169	8.2	6.5	6.5		1 2 3 4 6 10
265	1.73	489	2.26	804	3.23	1/4	7.96	90-270 V, 50 Hz *	F2	203	197	8.2	6.2	6.2	X	1 2 3 4 6 8 10
558	1.72	1049	2.29	1731	3.14	1/2	7.96	90-270 V, 50 Hz *	F2	203	197	8.2	6.2	6.2	X	1 2 3 4 6 8 10
265	1.73	489	2.26	804	3.23	1/4	7.96	90-270 V, 50 Hz *	F2	203	197	8.2	6.5	6.5	X	1 2 3 4 6 8 10
558	1.72	1049	2.29	1731	3.14	1/2	7.96	90-270 V, 50 Hz *	F2	203	197	8.2	6.5	6.5	X	1 2 3 4 6 8 10
352	1.74	636	2.20	1031	3.08	1/3	10.09	90-270 V, 50 Hz *	F2	203	197	8.2	6.2	6.2	X	1 2 3 4 6 8 10
749	1.76	1357	2.22	2217	2.93	3/4	10.09	90-270 V, 50 Hz *	F2	203	197	8.2	6.2	6.2	X	1 2 3 4 6 8 10
352	1.74	636	2.20	1031	3.08	1/3	10.09	90-270 V, 50 Hz *	F2	203	197	8.2	6.5	6.5	X	1 2 3 4 6 8 10
749	1.76	1357	2.22	2217	2.93	3/4	10.09	90-270 V, 50 Hz *	F2	203	197	8.2	6.5	6.5	X	1 2 3 4 6 8 10
422	1.68	753	2.17	1230	2.86	3/8	12.55	198-254 V, 50 Hz *	F2	203	197	8.2	6.2	6.2	X	1 2 3 4 6 8 10
938	1.66	1675	2.05	2736	2.62	5/6	12.55	198-254 V, 50 Hz *	F2	203	197	8.2	6.2	6.2	X	1 2 3 4 6 8 10
422	1.68	753	2.17	1230	2.86	3/8	12.55	198-254 V, 50 Hz *	F2	203	197	8.2	6.5	6.5	X	1 2 3 4 6 8 10
938	1.66	1675	2.05	2736	2.62	5/6	12.55	198-254 V, 50 Hz *	F2	203	197	8.2	6.5	6.5	X	1 2 3 4 6 8 10
446	1.32					2/5	15.28	180-254 V, 50 Hz *	F2	199	193	10.2	6.2	6.2		4 10
888	1.42					5/6	15.28	180-254 V, 50 Hz *	F2	199	193	10.2	6.2	6.2		4 10
446	1.31					2/5	15.28	95-135 V, 60 Hz *	F2	199	193	10.2	6.2	6.2		4 10
888	1.42					5/6	15.28	95-135 V, 60 Hz *	F2	199	193	10.2	6.2	6.2		4 10

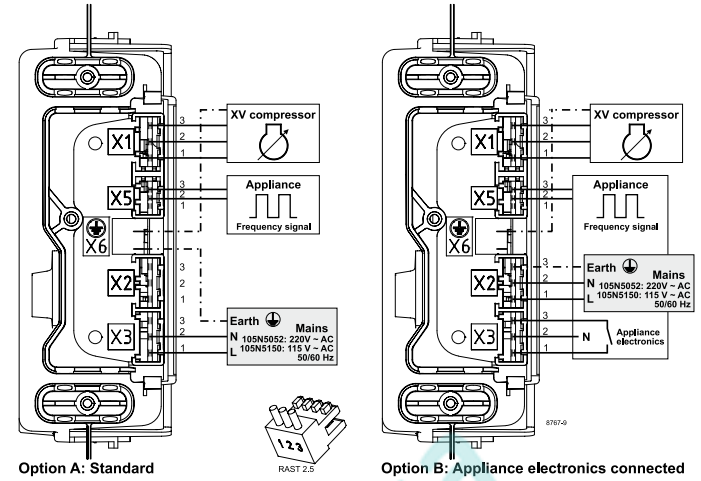
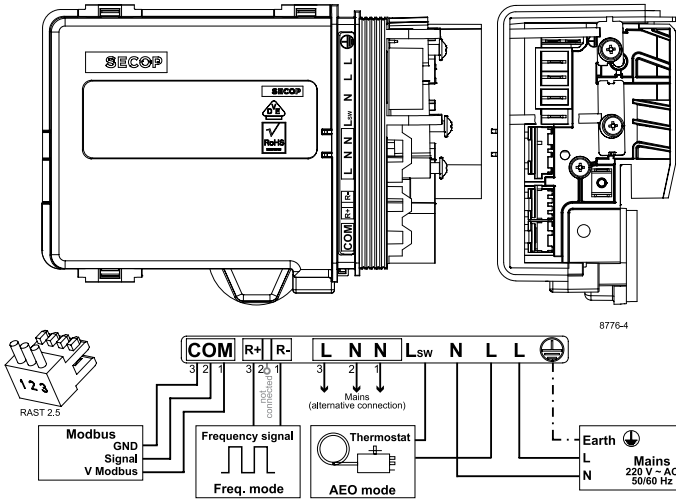
DLV / NLV / SLV



LST / HST - 105N5xxx Series Controller

XV - electronic unit 105N5022 (attached, 220-240 V, 50/60 Hz)

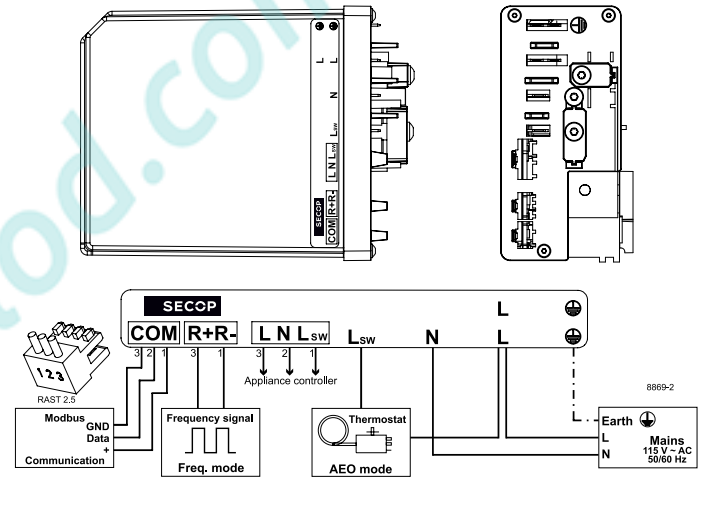
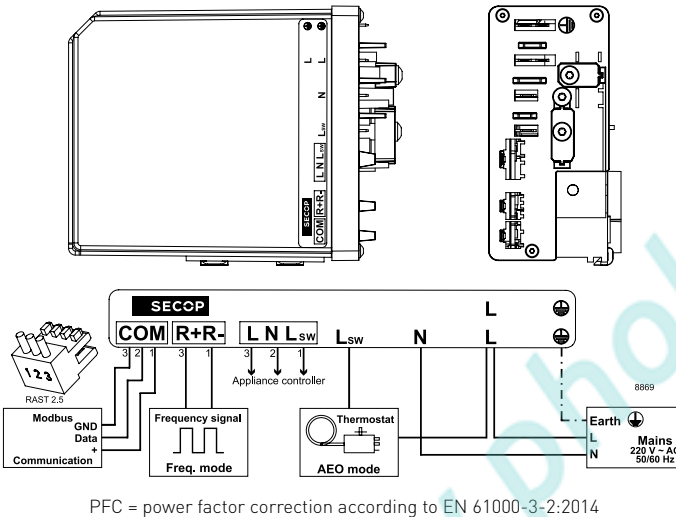
XV - electronic unit 105N5052 (detached, 220-240 V, 50/60 Hz)
 XV - electronic unit 105N5150 (detached, 100-127 V, 50/60 Hz)



LST / HST - 105N5xxx Series Controller

XV - electronic unit 105N5320 (attached, 220-240 V, 50/60 Hz, with PFC)
 XLV - electronic unit 105N5324 (attached, 220-240 V, 50/60 Hz, with PFC)

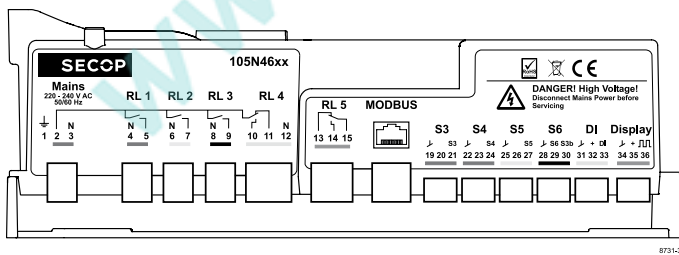
XV - electronic unit 105N5312 (attached, 100-127 V, 50/60 Hz)



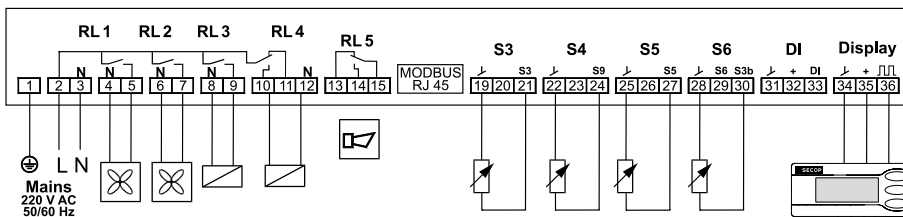
PFC = power factor correction according to EN 61000-3-2:2014

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

SLV



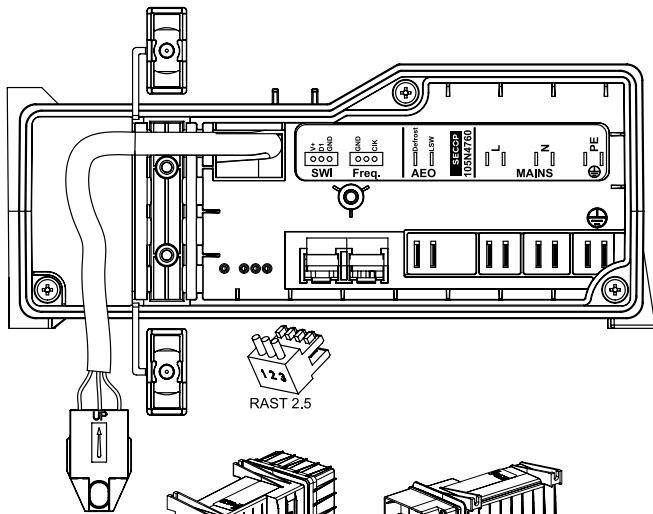
- Mains red
- RL 1 blue
- RL 2 yellow
- RL 3 black
- RL 4 grey
- RL 5 green
- S3 red
- S4 blue
- S5 yellow
- S6 black
- DI grey
- Display green



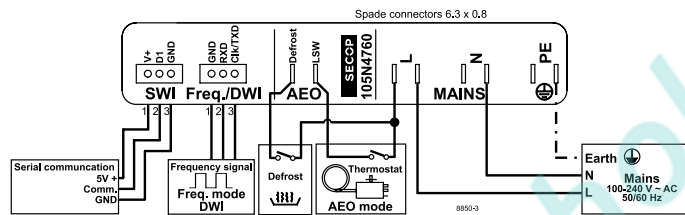
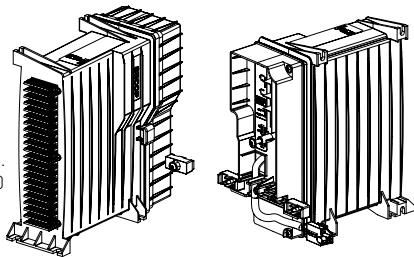
PFC = power factor correction according to EN 61000-3-2:2014

HST - 105N47xx Series Controller

NLV - electronic unit 105N4710 (220-240 V, 50/60 Hz, with PFC)
 NLV - electronic unit 105N4760 (100-240 V, 50/60 Hz, with PFC)



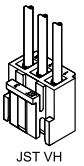
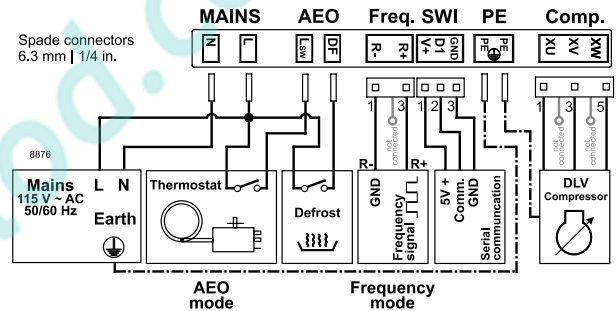
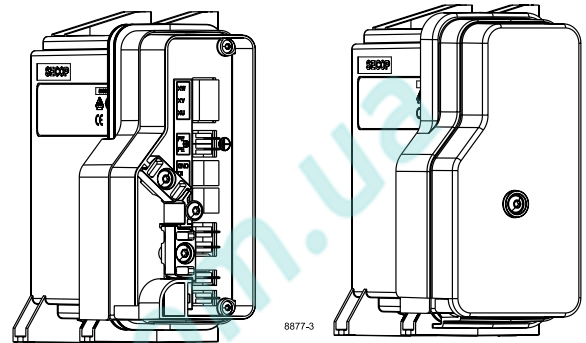
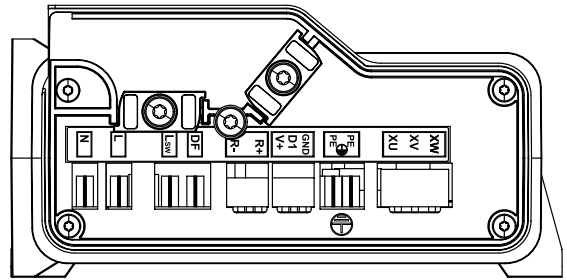
Drawing shows controller 105N4710. Controller 105N4760 has a slightly larger heatsink.



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

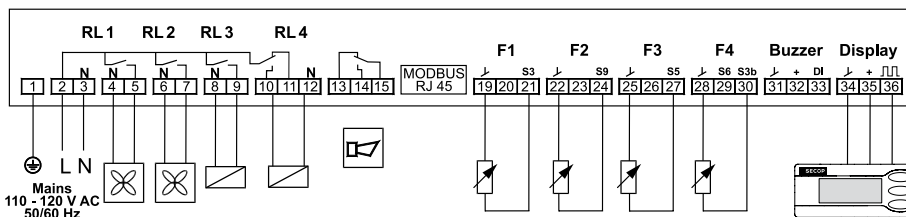
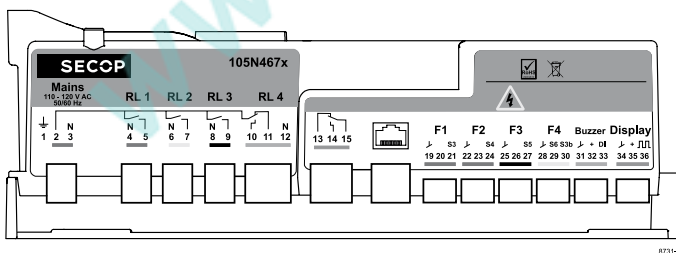
HST - 105N44xx Series Controller

DLV - electronic unit 105N4460 (100-120 V, 50/60 Hz)



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

SLV



- 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

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

Variable-Speed °CCD® Controllers (Electronic Units)

Full load operation is extremely rare in most cooling applications, restricted to a few days per year. That is why Secop has built variable-speed control into the DLV, NLV, SLV and X-Series.

This unique technology makes capacity automatically adapt to your actual requirement. The compressor runs at low speed most of the time, thus minimizing energy consumption.

On top of this, system efficiency is 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. No attempt needs to be made to start the compressor without a complete electronic unit, as specified in the data sheet for the compressor type in question.

The °CCD® electronic unit has a built-in overload protection as well as thermal protection. When this protection is activated, the electronic unit will protect the compressor motor as well as itself. The electronic unit will also automatically restart the compressor after a certain time.

The electronic unit provides the compressor with High Starting Torque (HST) which means pressure-equalization of the system before start is not necessary.

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 drastically reduced efficiency, or even nonfunctioning.

For more information on which starting device to use on individual compressors, please refer to the actual 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 Refrigerants R290 and R600a

R600a and R290 are hydrocarbons. These refrigerants are flammable and are only allowed for use in appliances which fulfil the requirements laid down in the latest revision of EN/IEC 60335-2-24.

Do not use open fire near the refrigerants R600a and R290. The refrigeration systems must be opened with a tube cutter.

In order to carry out service and repair on R600a and R290 systems the service personnel must be properly trained to be able to handle flammable refrigerants. This includes knowledge on tools, transportation of the compressor and refrigerant, and the relevant regulations and safety precautions when carrying out service and repair.

Secop compressors for the flammable refrigerants R600a and R290 are equipped with a yellow warning label as shown.



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	DLV- / NLV- / SLV- / X-Series	I
Bolt joint	118-1918	M6 metric	16 mm	Industrial pack in any quantity	DLV- / NLV- / SLV- / X-Series	I
Bolt joint	118-1946	1/4 inch	16 mm	Single pack for one compressor	DLV- / NLV- / SLV- / X-Series	II
Bolt joint	118-1949	1/4 inch	19 mm	Single pack for one compressor	all with 19 mm base holes	III
Snap-on	118-1947	Ø 7.3 mm	16 mm	Single pack for one compressor	DLV- / NLV- / SLV- / X-Series	IV
Snap-on	118-1919	Ø 7.3 mm	16 mm	Industrial pack in any quantity	DLV- / NLV- / SLV- / X-Series	IV

Parts list [4 pcs. per compressor needed]			Symbol drawings	
I	Sleeve Ø 8 mm x 6.4 mm x 0.8 mm	112-2052		
	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 8.3 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		
III	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		
IV	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		

Why Choose Variable-Speed Compressors?

The most important advantage of variable-speed technology is adaptable capacity which leads to high efficiency.

Overall, a variable-speed drive compressor offers engineers far more options when it comes to building electronic systems and products. By altering the settings for each individual device built, efficiency gains can be made that both benefit a business and the customer, i.e. the initial investment might be slightly higher applying a compressor with inverter but the operating costs and therefore the total cost of ownership will be significantly lower. Especially in high priced energy markets the payback time is extremely short

Advantages of adaptable capacity

- Improved system efficiency thanks to higher t_o 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 / R600a models, household and commercial applications (LBP/MBP)
- High starting torque (HST) features; no pressure equalization needed to start up the compressor

Same compressor type for different markets!

The most important advantage of adaptable capacity is reduced energy consumption, which is possible in different ways. The easiest, most efficient and cheapest way to reach this target is to use adaptable capacity compressors.

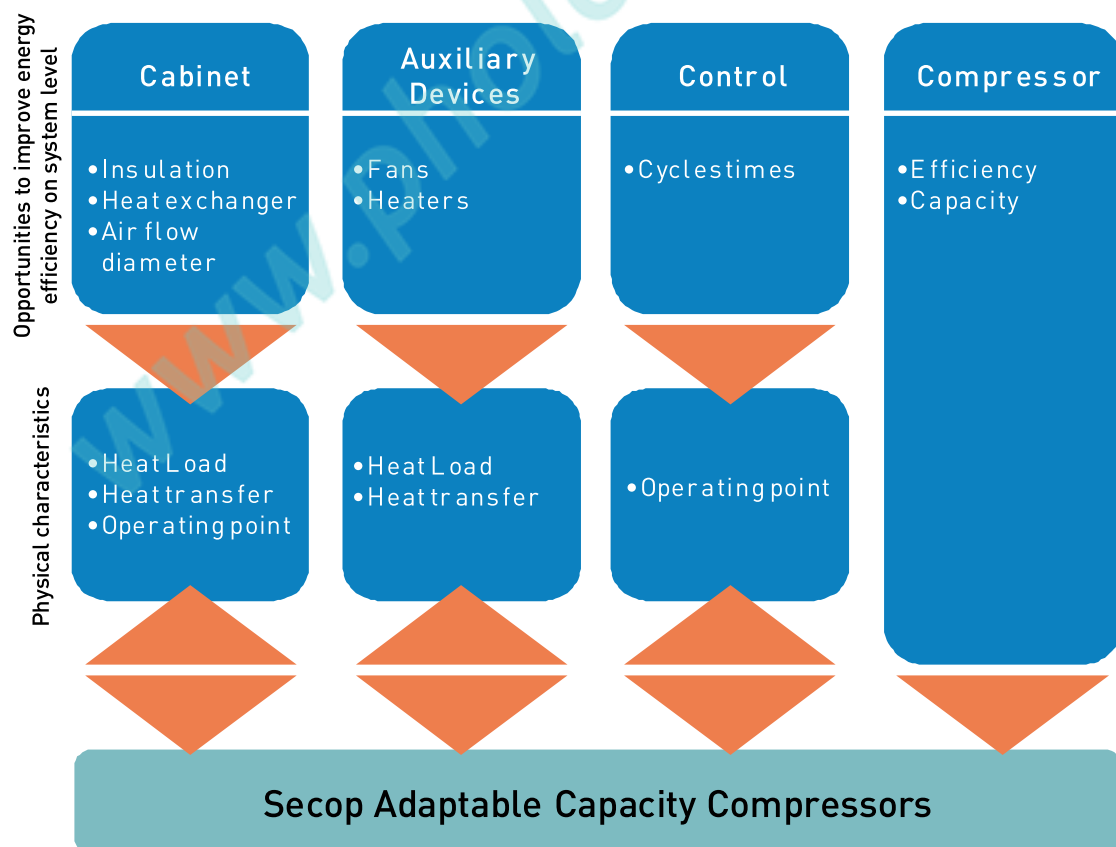
General

Secop adaptable capacity compressors offer the possibility 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 are highly optimized with very high 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 a bigger 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 loads.

Secop Adaptable Capacity Compressors



TOOL4COOL® – Variable-Speed Drive Software

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.

As well as using Tool4Cool® to customise and optimize settings during development, you can also use it for remote control and monitoring of your refrigeration circuit during operation.

Tool4Cool® retrieves and sends information to all controllers in the refrigeration system, including settings, temperature and speed. This enables you to control and monitor your system from a central station. With Tool4Cool® your service department has a constant overview of your cooling system, so trouble-shooting can be carried out remotely. Technicians only need to visit the plant in the event that a component needs to be replaced, for example.

Designed for easy operation

Tool4Cool® is a unique PC software tool that enables you to precisely configure your Secop compressors to your cooling systems.

Via microprocessor-based controllers, Tool4Cool® gives you easy access to all parameters. These can be changed, monitored, downloaded or uploaded to get the optimum performance out of your cooling system. Designed to be used with our automotive and light commercial range of compressors and controllers, Tool4Cool® covers a wide range of applications within parking cooling, light commercial cooling and transport cooling. Using Tool4Cool®, you can determine the basic specifications of your product, giving you the ability to clearly differentiate yourself in the market.

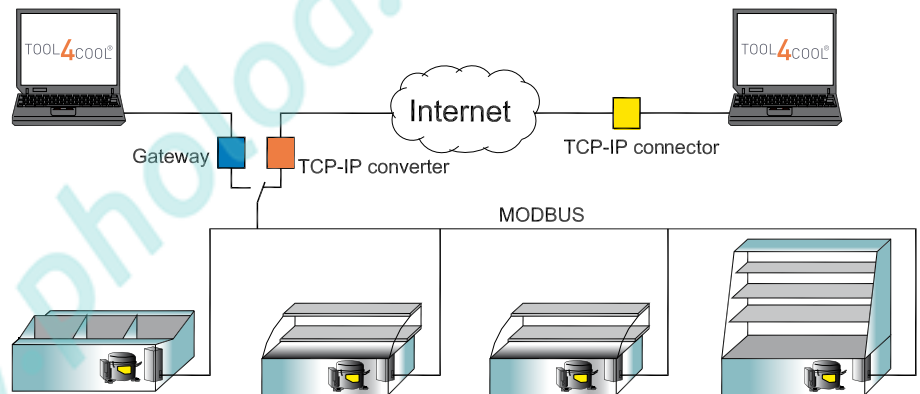
Software installation

- Visit the Tool4Cool® LabEdition page on www.secop.com
- Direct link: www.secop.com/solutions/application-detail/variable-speed-drive-software-tool4cool/
- Download and unzip the The Tool4Cool® installation package and then run the file setup.exe.



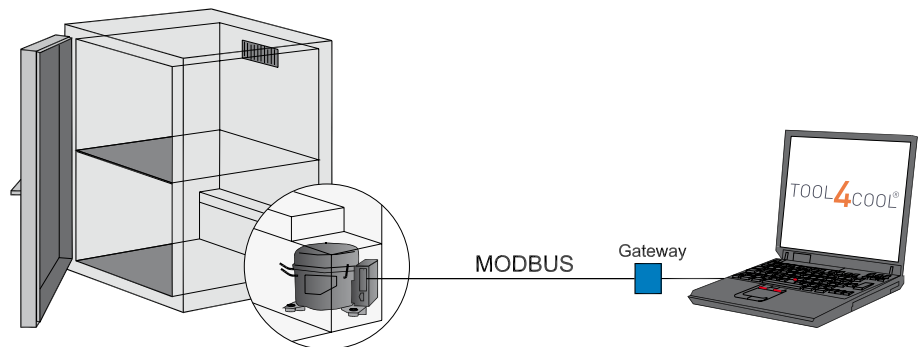
TOOL4COOL® in a Network System

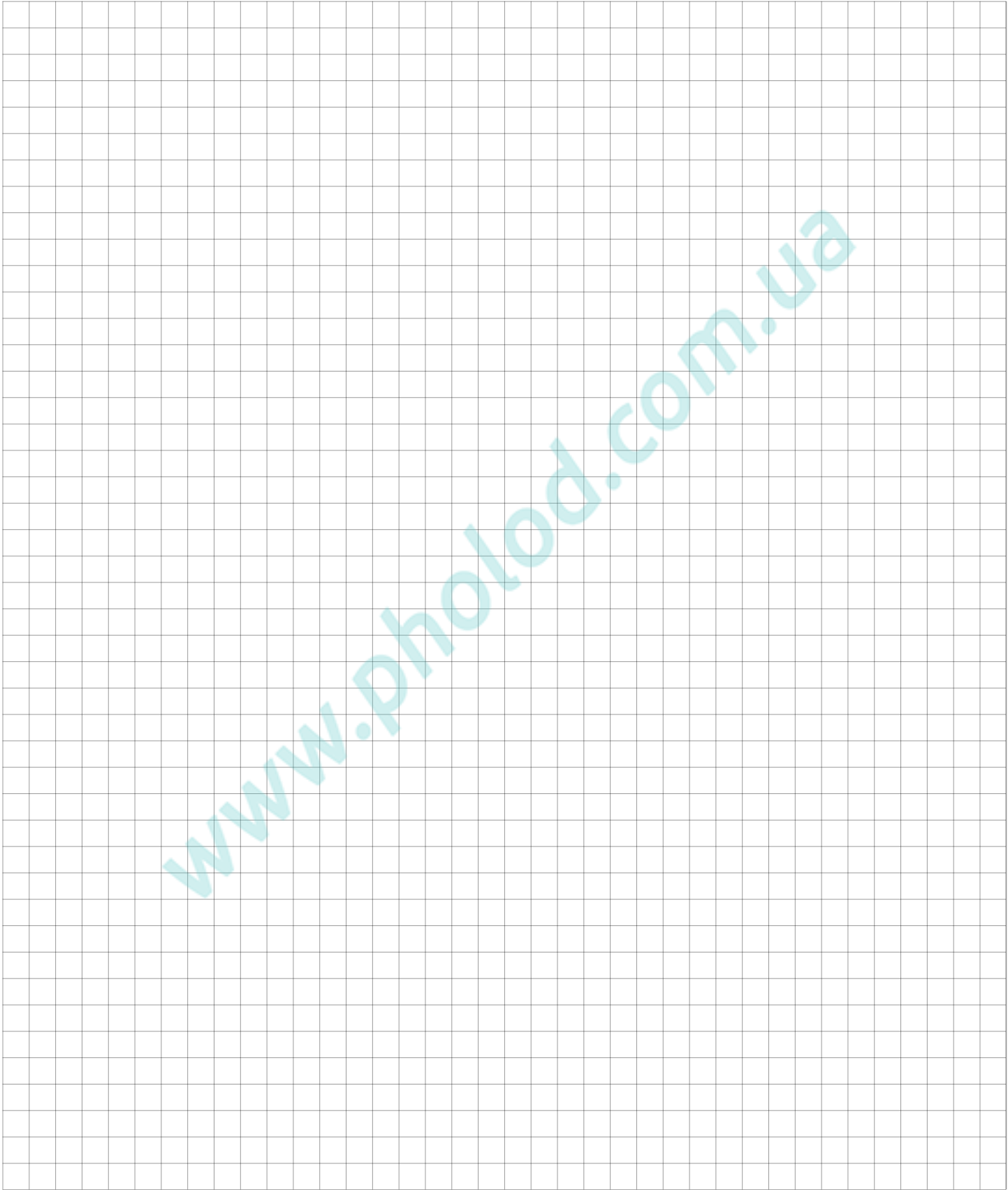
- Easy monitoring and optimization
- Alarm log and event log
- Easy service
- HACCP logging possible



TOOL4COOL® in a Standalone System

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





OUR IDENTITY

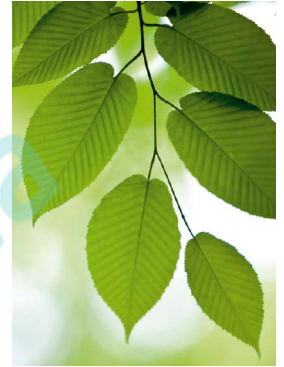
At Secop we are committed to our industry and are genuinely passionate about the difference we are able to make for our customers. We understand their business and objectives and the challenges of today's world of refrigeration and cooling systems.

We work in a straightforward way, being open, direct and honest because we want to make things clear and easy. Our people are committed to increasing value for our customers and constantly strive for better performance, knowing that our own progression and success is dependent on theirs.

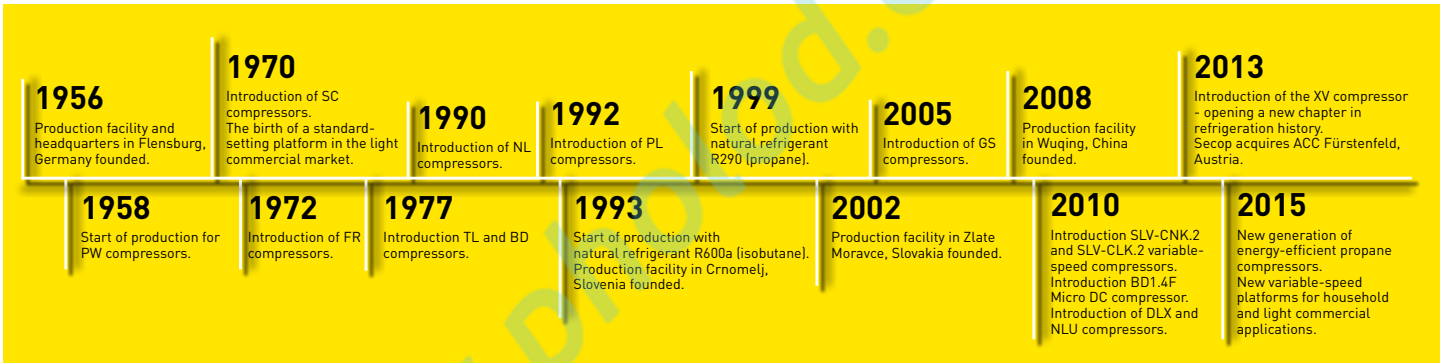
A NEWCOMER WITH 60 YEARS OF EXPERIENCE

Formerly known as Danfoss Compressors, Secop is one of the founding fathers of modern compressor technology with an experience that goes back to the beginning of the 1950s.

For more than 25 years, Secop has been setting the standard in compressor technology by developing highly efficient variable-speed compressors and by compressors working with hydrocarbons.



OUR JOURNEY SO FAR



Low Cooling Capacity High

HOUSEHOLD

LIGHT COMMERCIAL

AC



DC



DC-POWERED