

R290 · 220–240V | 50/60 Hz · VDE Certified

ADAPTABLE CAPACITY AND INTELLIGENT CONTROL

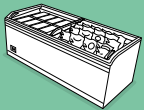
SECCP



NLVE-CN CF Core Functions



Commercial Applications



Variable Speed



High Efficiency



Wide Application Range



Effective Solutions



Sustainability

- Energy savings of up to 40% compared to a fixed speed R404A compressor
- Suitable for both LBP and MBP applications
- Able to operate continuously inside an evaporating temperature range from -40 to 0°C
- Intelligent variable-speed drive controller with automatic input detection and IP31 housing
- The controller provides a high starting torque and can start against a high differential pressure
- 2-speed defrost control
- An extra input that can be connected to the defrost relay output of the temperature controller

Secop's variable speed **NLV-CN** propane compressor solution provides perfect cooling efficiency, tailor-made features, and easy integration within a single unit while ensuring considerable energy savings. The perfect choice for food retail, food storage, and other commercial applications.

It comes with our **CF (Core Functions)** controller featuring speed control through Adaptive Energy Optimization (AEO), frequency signal, or serial communication.

The new CF controller features a robust and safe fire-proof IP31 housing, and coated PCB.

The NLV-CN is the right choice if you are looking for a green solution using the environmentally-friendly refrigerant propane (R290) with a low global warming potential (GWP 3).

General		NLVE10CN	NLVE13CN	NLVE15CN
Compressor		105H7079*	105H7379*	105H7579*
Electronic unit - CF Core Functions	220-240 V	105N4110*	105N4110*	105N4110*
Approvals	50/60 Hz	VDE pending	VDE pending	VDE pending
Power Factor Correction		PFC according to EN 61000-3-2:2014		
		*preliminary data	*preliminary data	*preliminary data

Application		R290		
Application		LBP/MBP		
Evaporating temperature	°C (°F)	-40 to 0 [-40 to 32]		
Voltage range / frequency	V/Hz	198-264 / 50/60		
Speed range	rpm	2000-5000		

Performance Data ASHRAE LBP (230 V, 50/60 Hz • fan cooling) @ -23.3°C (-10°F) evaporating temperature													
Speed	rpm	2000	3000	4500	5000	2000	3000	4500	5000	2000	3000	4500	5000
Cooling capacity	W	331	516	751	877	427	659	965	1085	508	777	1118	1245
	BTU/h	1131	1762	2564	2994	1459	2250	3294	3704	1737	2653	3819	4247
Power consumption	W	194	295	446	519	250	377	574	644	310	469	727	786
COP	W/W	1.71	1.75	1.68	1.69	1.71	1.75	1.68	1.69	1.64	1.66	1.54	1.58
EER	BTU/Wh	5.83	5.98	5.75	5.77	5.84	5.98	5.74	5.75	5.61	5.65	5.25	5.41
Test conditions		Condensing temp.: 54.4°C (130°F) Suction gas temp.: 32.2°C (90°F) Ambient temp.: 32.2°C (90°F) Liquid temp.: 32.2°C (90°F)											

Performance Data ASHRAE MBP (230 V, 50/60 Hz • fan cooling) @ -6.7°C (20°F) evaporating temperature													
Speed	rpm	2000	3000	4500	5000	2000	3000	4500	5000	2000	3000	4500	5000
Cooling capacity	W	592	914	1335	1539	747	1161	1674	1882	878	1330	1897	2107
	BTU/h	2021	3120	4557	5254	2552	3964	5718	6428	2997	4543	6478	7197
Power consumption	W	270	415	637	737	353	544	851	957	439	668	1022	1100
COP	W/W	2.19	2.20	2.09	2.09	2.12	2.13	1.97	1.97	2.00	1.99	1.86	1.92
EER	BTU/Wh	7.48	7.53	7.15	7.13	7.23	7.28	6.72	6.72	6.84	6.80	6.34	6.54
Test conditions		Condensing temp.: 54.4°C (130°F) Suction gas temp.: 35°C (95°F) Ambient temp.: 32.2°C (90°F) Liquid temp.: 46.1°C (115°F)											

Dimensions			
Height	mm	A	203
		B	197
Suction connector	location/I.D. mm angle material seal	C	8.2 15° Copper Rubber plug
		D	6.2 25° Copper Rubber plug
Discharge connector	location/I.D. mm angle material seal	E	6.2 21° Copper Rubber plug
Connector tolerance	I.D. mm		±0.09

