

R290 · 115–127V | 50/60Hz · UL Recognized

ADAPTABLE CAPACITY AND INTELLIGENT CONTROL

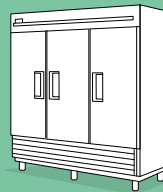
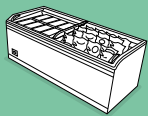
SECCP



NLVE-CN CF Core Functions



Commercial Applications



Variable-Speed Efficiency



Wide Application Range



Optimal Energy Consumption



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 **NLVE-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 NLVE-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).

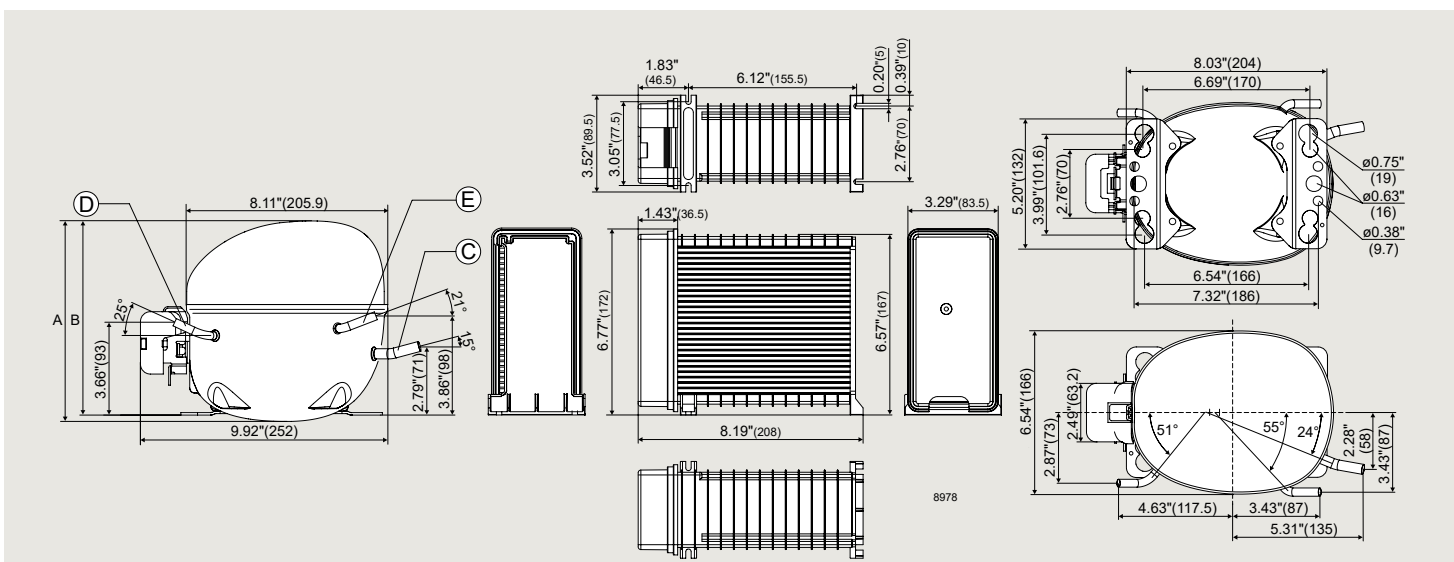
General			NLVE13CN
Compressor			105H7374
Electronic unit - CF Core Functions	115-127 V		105N4100
Approvals (US GFCI-Conformity)	50/60 Hz		UL

Application		R290
Application		LBP/MBP
Evaporating temperature	°F (°C)	-40 to 32 [-40 to 0]
Input voltage range / frequency	V/Hz	100-140 / 50/60
Speed range	rpm	2000-4500

Performance Data ASHRAE LBP (115 V, 50/60 Hz • fan cooling) @ -10 °F (-23.3 °C) evaporating temperature					
Speed	rpm	2000	3000	3500	4500
Cooling capacity	BTU/h	1496	2296	2666	3317
	W	438	672	781	971
Power consumption	W	247	374	441	572
EER	BTU/Wh	6.05	6.14	6.04	5.79
COP	W/W	1.77	1.80	1.77	1.70
Test conditions	Condensing temp.: 130 °F (54.4 °C) Suction gas temp.: 90 °F (32.2 °C) Ambient temp.: 90 °F (32.2 °C) Liquid temp.: 90 °F (32.2 °C)				

Performance Data ASHRAE MBP (115 V, 50/60 Hz • fan cooling) @ 20 °F (-6.7 °C) evaporating temperature					
Speed	rpm	2000	3000	3500	4500
Cooling capacity	BTU/h	2619	4065	4703	5759
	W	767	1190	1377	1686
Power consumption	W	341	545	646	821
EER	BTU/Wh	7.68	7.46	7.29	7.01
COP	W/W	2.25	2.19	2.13	2.05
Test conditions	Condensing temp.: 130 °F (54.4 °C) Suction gas temp.: 95 °F (35 °C) Ambient temp.: 90 °F (32.2 °C) Liquid temp.: 115 °F (46.1 °C)				

Dimensions				
Height	inch (mm)	A	7.99 (203)	
		B	7.76 (197)	
Suction connector	location/I.D. inch (mm) angle material seal	C	0.320-0.327 (8.2 ±0.09)	
			15° Copper Rubber plug	
Process connector	location/I.D. inch (mm) angle material seal	D	0.252-0.259 (6.5 ±0.09)	
			25° Copper Rubber plug	
Discharge connector	location/I.D. inch (mm) angle material seal	E	0.252-0.259 (6.5 ±0.09)	
			21° Copper Rubber plug	



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