

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

# ADAPTABLE CAPACITY AND INTELLIGENT CONTROL

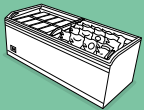
SECCP



## NLV-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, tailormade 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).

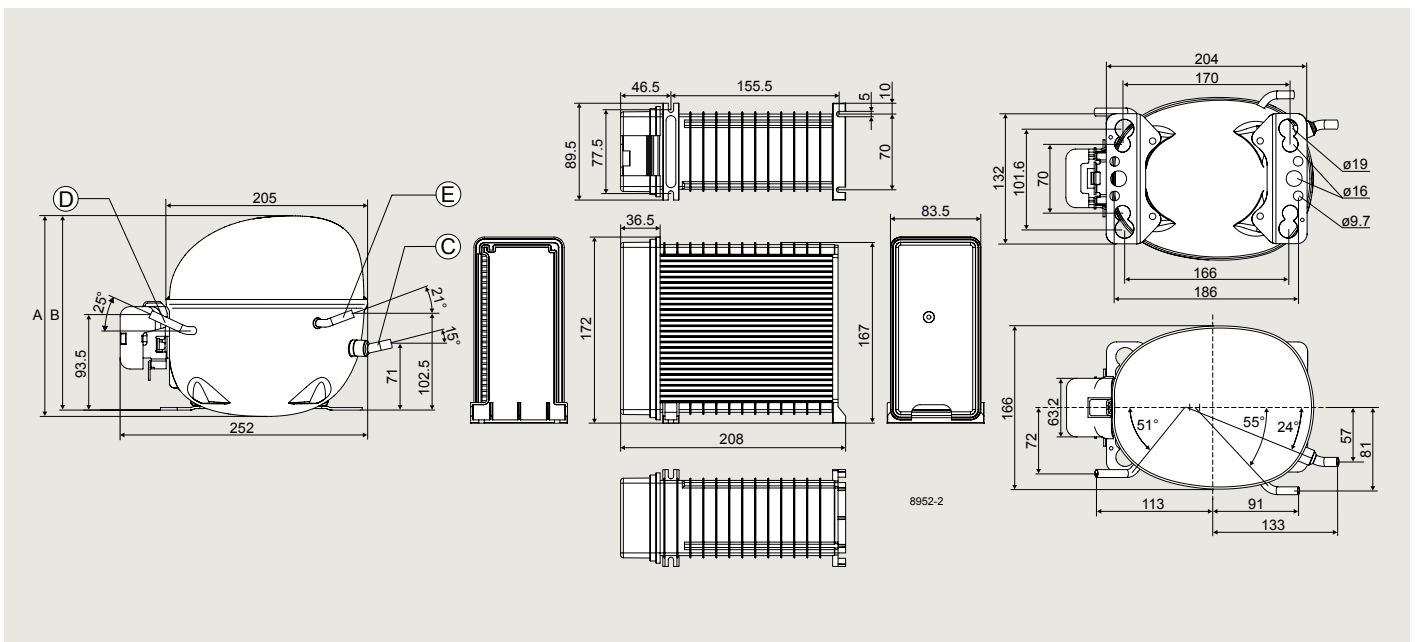
General		NLV8.0CN	NLV10CN	NLV12.6CN
Compressor		105H7813	105H7013	105H7363
Electronic unit - CF Core Functions	220-240 V	105N4120	105N4120	105N4120
Approvals	50/60 Hz		CCC	

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	2000-4500		

Performance Data ASHRAE LBP (230 V, 50/60 Hz • fan cooling) @ -23.3°C [-10°F] evaporating temperature													
Speed	rpm	2000	2500	3000	4500	2000	2500	3000	4500	2000	3000	3500	4500
Cooling capacity	W	272	349	418	558	340	436	522	749	393	605	703	916
	BTU/h	929	1192	1426	1905	1162	1489	1782	2559	1496	2305	2677	3490
Power consumption	W	148	184	220	317	186	231	276	417	251	379	439	577
COP	W/W	1.84	1.90	1.90	1.76	1.83	1.89	1.89	1.80	1.75	1.78	1.79	1.77
EER	BTU/Wh	6.29	6.48	6.50	6.00	6.25	6.44	6.46	6.13	5.96	6.08	6.10	6.05
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	2500	3000	4500	2000	2500	3000	4500	2000	3000	3500	4500
Cooling capacity	W	485	612	733	1049	606	765	916	1357	767	1190	1377	1774
	BTU/h	1657	2091	2503	3581	2070	2614	3128	4635	2619	4064	4702	6058
Power consumption	W	206	261	310	450	261	329	392	604	351	544	634	833
COP	W/W	2.36	2.35	2.36	2.33	2.32	2.33	2.34	2.25	2.19	2.19	2.17	2.13
EER	BTU/Wh	8.06	8.03	8.07	7.96	7.94	7.94	7.99	7.68	7.47	7.48	7.42	7.27
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/l.D. mm   angle material   seal	C	8.2   15° Copper   Rubber plug
		D	6.2   25° Copper   Rubber plug
Process connector	location/l.D. mm   angle material   seal	E	6.2   21° Copper   Rubber plug
Connector tolerance	I.D. mm		±0.09



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