

R290 · 220–240V | 50/60Hz · 100–240V | 50/60Hz

ADAPTABLE CAPACITY AND INTELLIGENT CONTROL

SECCP



NLV-CN MP Multipurpose



Commercial Applications



Variable-Speed Efficiency



Premium Controllers



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 +7.2°C
- Intelligent variable-speed drive °CCD controller (Cool Capacity Drive) with automatic input detection and IP54 housing
- The controller provides a high starting torque and can start against a high differential pressure
- 2 additional relay outputs for case control
- 2-speed defrost control
- Easy customization via Tool4Cool®

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 °CCD **MP (Multipurpose)** controller featuring speed control through Adaptive Energy Optimization (AEO), frequency signal, or serial communication. Various controllers are available, including a multi-voltage controller which can be used for all voltages and frequencies globally.

The new MP controller features improved robustness and safety: fire-proof IP54 housing, PCB coating, galvanic isolated I/Os, and SW safety layers.

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		NLV15CN*	
Compressor connectors:	metric inch	105H7865	105H7866	105H7065	105H7066	105H7365	105H7366	105H7520	105H7522
Electronic unit - MP Standard	220-240 V	105N4910		105N4910		105N4910		105N4914	
Approvals	50/60 Hz	VDE, CCC, CB		VDE, CCC, CB		VDE, CCC, CB		pending	
Electronic unit - MP Multi-Voltage	100-240 V	105N4960		105N4960		105N4960		105N4964	
Approvals	50/60 Hz	VDE, UL, CCC, CB		VDE, UL, CCC, CB		VDE, UL, CCC, CB		VDE, UL	
Electronic unit - MP Multi-Voltage	100-240 V	105N4962		105N4962		105N4962		105N4966	
Approvals (US GFCI-Conformity)	50/60 Hz	VDE, UL, CCC, CB		VDE, UL, CCC, CB		VDE, UL, CCC, CB		VDE, UL	
Power Factor Correction		PFC according to EN 61000-3-2:2014							

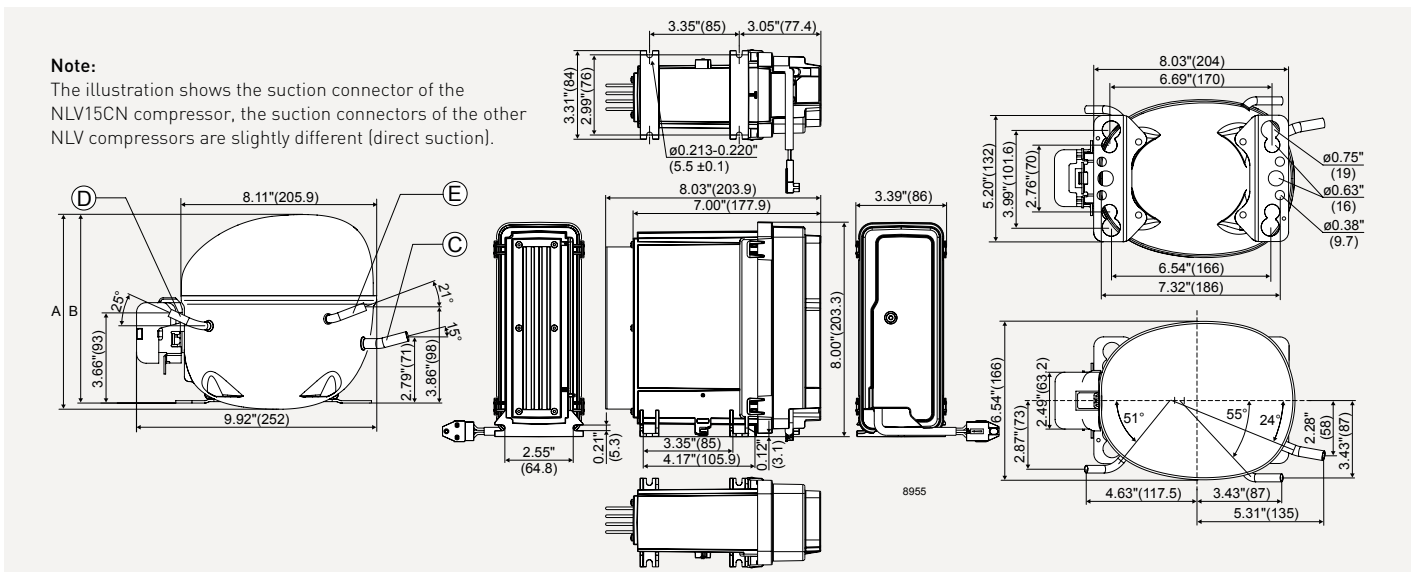
*preliminary data

Application		R290										
Application		LBP/MBP										
Evaporating temperature	°C (°F)	-40 to 7.2 (-40 to 45)			-40 to 7.2 (-40 to 45)			-40 to 7.2 (-40 to 45)			-40 to 10 (-40 to 50)	
Voltage range / frequency	V/Hz	180-270 / 50/60 (Standard) 90-270 / 50/60 (Multi Voltage)										
Speed range	rpm	2000-4500			2000-4500			2000-4500			2000-5000	

Performance Data ASHRAE LBP (115/220 V, 50/60 Hz • fan cooling) @ -23.3°C (-10°F) evaporating temperature													
Speed	rpm	2000	3000	4500	2000	3000	4500	2000	3000	4500	2000	3000	5000
Cooling capacity	W	259	409	620	340	529	797	393	606	916	521	793	1266
	BTU/h	885	1397	2119	1162	1808	2721	1497	2308	3490	1780	2708	4323
Power consumption	W	147	220	341	194	291	441	249	371	567	313	466	775
COP	W/W	1.76	1.86	1.82	1.76	1.82	1.81	1.76	1.82	1.80	1.67	1.70	1.63
EER	BTU/Wh	6.02	6.35	6.22	6.00	6.22	6.18	6.02	6.22	6.16	5.70	5.82	5.58
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 (115/220 V, 50/60 Hz • fan cooling) @ -6.7°C (20°F) evaporating temperature													
Speed	rpm	2000	3000	4500	2000	3000	4500	2000	3000	4500	2000	3000	4500
Cooling capacity	W	481	723	1097	678	1046	1578	766	1189	1772	900	1364	1954
	BTU/h	1644	2470	3745	2074	3199	4826	2618	4062	6053	3073	4658	6672
Power consumption	W	205	303	470	269	408	627	351	535	835	443	665	1002
COP	W/W	2.35	2.39	2.34	2.26	2.30	2.25	2.18	2.22	2.12	2.03	2.05	1.95
EER	BTU/Wh	8.04	8.16	7.97	7.70	7.85	7.69	7.45	7.60	7.25	6.94	7.00	6.66
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		105H7865 / 105H7065 / 105H7365 / 105H7520 (metric)				105H7866 / 105H7066 / 105H7366 / 105H7522 (inch)							
Height	mm (inch)	A				203				203 (7.99)			
		B				197				197 (7.76)			
Suction connector	location/l.D. mm (inch)	C				8.2 15°				8.2 (0.320-0.327) 15°			
	angle material seal					Copper Rubber plug				Copper Rubber plug			
Process connector	location/l.D. mm (inch)	D				6.2 25°				6.5 (0.252-0.259) 25°			
	angle material seal					Copper Rubber plug				Copper Rubber plug			
Discharge connector	location/l.D. mm (inch)	E				6.2 21°				6.5 (0.252-0.259) 21°			
	angle material seal					Copper Rubber plug				Copper Rubber plug			
Connector tolerance	I.D. mm					±0.09				-			



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