

NO MORE ENERGY WASTE WITH  
VARIABLE SPEED COMPRESSORS

**R290**  
NLV-CN COMPRESSOR



**GLOBAL VOLTAGE RANGE**  
**WIDE OPERATING VOLTAGE RANGE**  
NEW 105N4760 CONTROLLER CAN BE USED FOR  
ALL VOLTAGES AND FREQUENCIES GLOBALLY

**NLV12.6CN**  
220-240V~50/60Hz  
LRP/HRP  
SUCTION → R290  
Only with NLV controller  
SECOP  
105H  
6355  
MADE IN SLOVAKIA

up to **40%**

**ENERGY REDUCTION**  
POSSIBLE WITH VARIABLE SPEED CONTROL IN  
SUPERMARKET AND CONVENIENCE STORE  
CABINETS, COMPARED  
TO NON-OPTIMISED COMPRESSORS.

**IP54**  
HIGH PROTECTION CLASS  
AGAINST DUST AND WATER JETS



# NLV-CN WITH INTELLIGENT MULTI VOLTAGE CONTROLLER

Nidec GA Compressors' variable speed NLV propane compressor solution provides perfect cooling efficiency, tailor-made features, and easy integration within a single unit while ensuring considerable energy savings. It 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).

The new °CCD® controller features a high IP54 protection class and easy integration by using speed control through Adaptive Energy Optimization (AEO), frequency signal or serial communication.

The controller also provides a high starting torque and can start against a differential pressure.

Only the variable speed design can obtain energy savings of up to 40% when compared to fixed speed compressors in on/off operation mode.

## Benefits

- Energy savings of up to 40%
- IP54 controller housing
- Suitable for LBP and MBP applications
- High starting torque
- Easy customization via TOOL4COOL® software

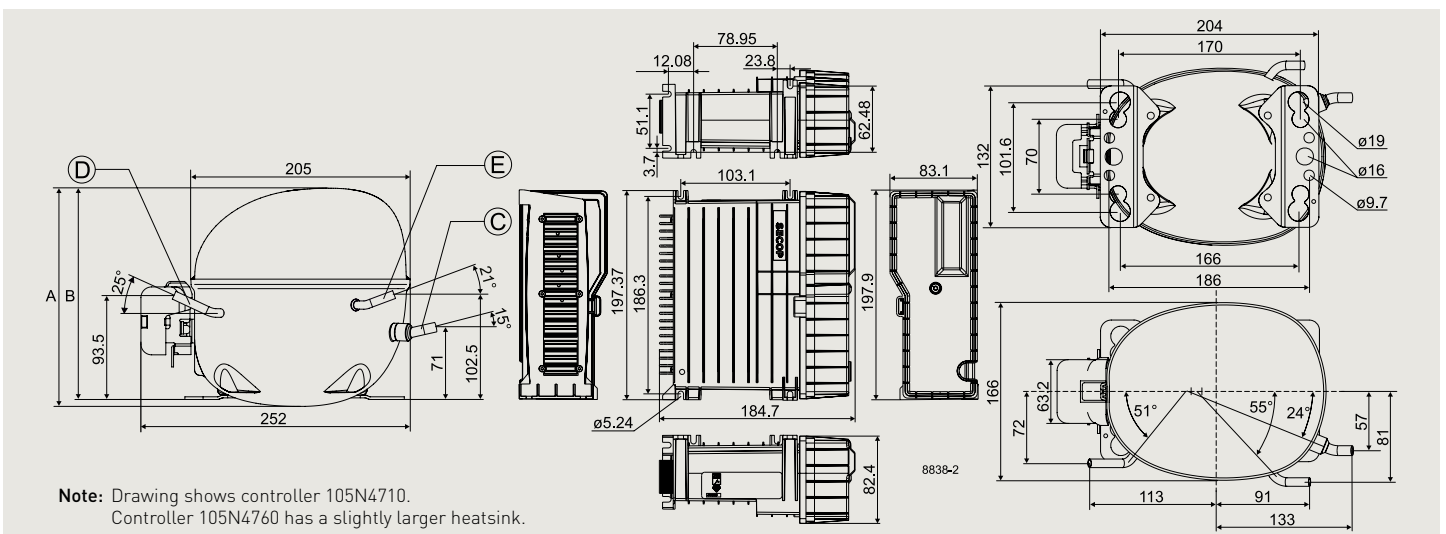
General (code numbers)		NLV8.0CN		NLV10CN		NLV12.6CN	
Compressor connectors: metric   inch		105H7800	105H7801	105H7000	105H7001	105H6355	105H6356
Electronic unit - Standard	220-240 V	105N4710 (with Power Factor Correction according to EN 61000-3-2:2014)					
Approvals	50/60 Hz	EN 60335-2-34 with Annex AA, CCC					
Electronic unit - Multi Voltage	100-240 V	105N4760 (with Power Factor Correction according to EN 61000-3-2:2014)					
Approvals	50/60 Hz	EN 60335-2-34 with Annex AA, UL 60335-2-34 with Annex AA, CB IEC 60335-2-34					

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

Performance data ASHRAE LBP (115/220 V, 50/60 Hz • fan cooling) @ -23.3 °C [-10 °F] evaporating temperature													
Speed	rpm	2000	2500	3000	4500	2000	2500	3000	4500	2000	2500	3000	4500
Cooling capacity	W	266	346	384	558	352	439	514	749	422	541	653	938
	BTU/h	907	1182	1313	1905	1202	1498	1756	2559	1442	1846	2232	3204
Power consumption	W	153	188	217	324	203	243	289	425	251	309	371	566
COP	W/W	1.73	1.84	1.78	1.72	1.74	1.81	1.78	1.76	1.68	1.75	1.76	1.66
EER	BTU/Wh	5.91	6.28	6.06	5.88	5.93	6.18	6.07	6.02	5.75	5.97	6.02	5.66
Test conditions		Condensing temperature: 54.4°C (130°F)   Suction gas temperature: 32.2°C (90°F)   Ambient temperature: 32.2°C (90°F)   Liquid temperature: 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	2500	3000	4500	2000	2500	3000	4500	2000	2500	3000	4500
Cooling capacity	W	489	616	718	1049	636	781	929	1357	753	952	1137	1675
	BTU/h	1671	2103	2453	3581	2172	2665	3173	4635	2572	3250	3882	5719
Power consumption	W	216	262	306	458	289	341	408	612	348	441	520	818
COP	W/W	2.27	2.35	2.35	2.29	2.21	2.29	2.28	2.22	2.17	2.16	2.19	2.05
EER	BTU/Wh	7.74	8.02	8.02	7.82	7.53	7.81	7.79	7.57	7.40	7.37	7.46	6.99
Test conditions		Condensing temperature: 54.4°C (130°F)   Suction gas temperature: 35°C (95°F)   Ambient temperature: 35°C (95°F)   Liquid temperature: 46.1°C (115°F)											

Dimensions		105H7800 / 105H7000 / 105H6355 (metric connectors)				105H7801 / 105H7001 / 105H6356 (inch connectors)			
Height	mm (in.)	A				203 (7.99)			
		B				197 (7.76)			
Suction connector	location/I.D. mm (in.)   angle	C				8.2   15°			
	material   seal	Copper   Rubber plug				Copper   Rubber plug			
Process connector	location/I.D. mm (in.)   angle	D				6.2   25°			
	material   seal	Copper   Rubber plug				Copper   Rubber plug			
Discharge connector	location/I.D. mm (in.)   angle	E				6.2   21°			
	material   seal	Copper   Rubber plug				Copper   Rubber plug			
Conn. tolerance	I.D. mm	±0.09				-			



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