

NO MORE ENERGY WASTE WITH
VARIABLE SPEED COMPRESSORS

R290
DLV-CN COMPRESSORS



up to **40%**

ENERGY REDUCTION

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



3 GWP

ACHIEVABLE WITH
POWERFUL EFFICIENT **LBP/MBP**
COMPRESSORS, DESIGNED FOR BOTTLE
COOLERS, COMMERCIAL FREEZERS, FOOD
RETAIL AND ICE-CREAM CABINETS, ETC.



DLV VARIABLE SPEED COMPRESSORS, 230 V OR 115 V AT 50/60 Hz

The new variable speed DLV propane compressors provide perfect cooling efficiency and easy integration 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 common interface to case controllers from all major suppliers and uses speed control through Adaptive Energy Optimization (AEO), or 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.

The DLV noise level is up to 10 dBA lower than the level of comparable fixed speed compressors.

Benefits

- Energy savings of up to 40%
- Common interface to case controllers
- Suitable for LBP and MBP applications
- High starting torque
- Easy customization via TOOL4COOL® software
- Reduction of total cost of ownership
- Fast payback of incremental investment

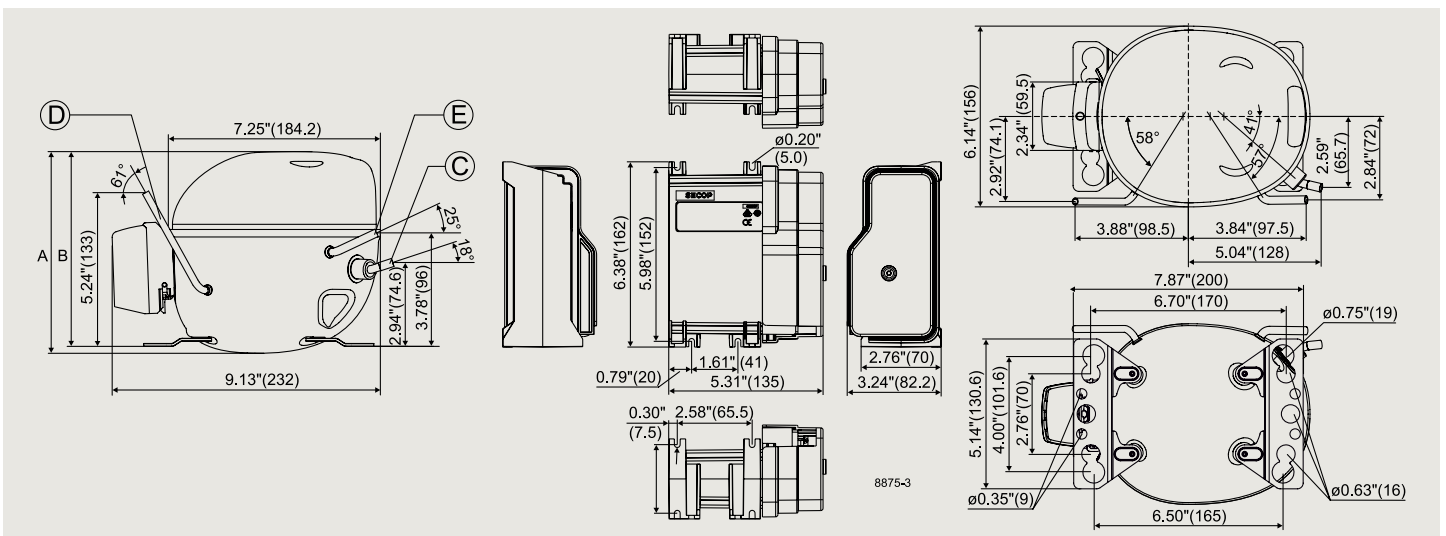
General (code numbers)	DLV5.7CN (220-240 V)	DLV5.7CN (100-120 V)
Compressor (without electronic unit)	102H4660	102H4604
Electronic units	105N441x, 105N451x (incl. power factor correction)	105N446x
Approvals	EN 60335-2-34, CCC	UL 60335-2-34

Application			LBP/MBP	LBP/MBP
Application			LBP/MBP	LBP/MBP
Evaporating temperature	°C	-35 to 7.2	-35 to 7.2	-35 to 7.2
Voltage range / frequency	V/Hz	180 - 254 / 50/60	90 - 140 / 50/60	90 - 140 / 50/60
Speed range	rpm	2000 - 4500	2000 - 4500	2000 - 4500

Performance data ASHRAE LBP (115 V or 220 V, 50/60 Hz • fan cooling) @ -23.3 °C evaporating temperature									
Speed	rpm	2000	2300	2600	3000	3300	3600	4000	4500
Cooling capacity	W	194	224	254	294	323	353	393	446
Power consumption	W	115	132	150	175	194	213	239	277
COP	W/W	1.69	1.69	1.70	1.69	1.66	1.65	1.64	1.61
Test conditions		Condensing temperature: 54.4°C Suction gas temperature: 32.2°C Ambient temperature: 32.2°C Liquid temperature: 32.2°C							

Performance data ASHRAE MBP (115 V or 220 V, 50/60 Hz • fan cooling) @ -6.7 °C evaporating temperature									
Speed	rpm	2000	2300	2600	3000	3300	3600	4000	4500
Cooling capacity	W	345	398	450	520	573	626	696	791
Power consumption	W	157	181	205	239	265	291	326	378
COP	W/W	2.20	2.20	2.20	2.17	2.16	2.15	2.14	2.10
Test conditions		Condensing temperature: 54.4°C Suction gas temperature: 35°C Ambient temperature: 35°C Liquid temperature: 46.1°C							

Dimensions			
Height	mm	A	175
		B	169
Suction connector	location/I.D. mm angle	C	8.2 18°
	material seal		Copper Rubber plug
Process connector	location/I.D. mm angle	D	6.2 61°
	material seal		Copper Rubber plug
Discharge connector	location/I.D. mm angle	E	6.2 25°
	material seal		Copper Rubber plug
Connector tolerance	I.D. mm		±0.09



Nidec Global Appliance Germany GmbH · Mads-Clausen-Str. 7 · 24939 Flensburg · Germany · Tel: +49 461 4941 0 · www.secop.com

Nidec GA Compressors accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Nidec GA Compressors reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without consequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Nidec Global Appliance Germany GmbH. All rights reserved.

Produced by Nidec Global Appliance Germany GmbH | October 2017

DES.N.300.D2.02