

Nidec

All for dreams

SECOP

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.



IP54

HIGH PROTECTION CLASS
AGAINST DUST AND WATER JETS



DLV VARIABLE SPEED COMPRESSORS, 100-127 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 high IP54 protection class and 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.

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 controller also provides a high starting torque and can start against a differential pressure. 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%
- IP54 controller housing
- 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

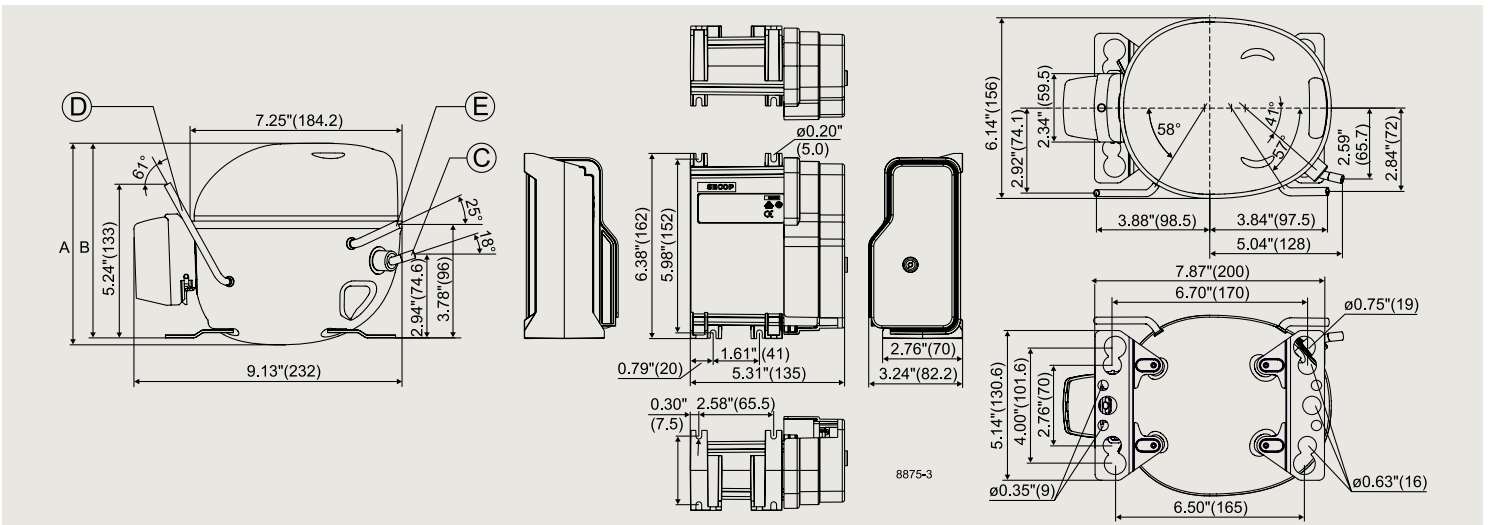
General (code numbers)	DLV4.0CN	DLV5.7CN
Compressor	102H3486	102H4604
Electronic unit	105N4460	105N4460
Approvals	UL 60335-2-34	

Application		
Application	LBP/MBP	
Evaporating temperature °F	-31 to 45	
Voltage range / frequency V/Hz	90 - 140 / 50/60	
Speed range rpm	2000 - 4500	

Performance data ASHRAE LBP (115 V, 50/60 Hz • fan cooling) @ -10 °F evaporating temperature																
Speed rpm	2000	2250	2500	2750	3000	3500	4000	4500	2000	2250	2500	2750	3000	3500	4000	4500
Cooling capacity BTU/h	409	465	522	577	632	741	849	958	664	748	833	917	1002	1170	1339	1523
Power consumption W	77.6	87.6	97.5	107.1	116.7	137.0	157.3	177.5	115	130	144	160	176	207	239	277
EER BTU/Wh	5.27	5.31	5.35	5.38	5.42	5.41	5.40	5.39	5.76	5.78	5.79	5.75	5.71	5.65	5.61	5.50
Test conditions	Condensing temperature: 130°F Suction gas temperature: 90°F Ambient temperature: 90°F Liquid temperature: 90°F															

Performance data ASHRAE MBP (115 V, 50/60 Hz • fan cooling) @ 20 °F evaporating temperature																
Speed rpm	2000	2250	2500	2750	3000	3500	4000	4500	2000	2250	2500	2750	3000	3500	4000	4500
Cooling capacity BTU/h	783	891	999	1105	1210	1418	1626	1834	1176	1326	1477	1626	1776	2075	2375	2700
Power consumption W	103.1	118.3	133.5	146.4	159.3	186.9	214.6	242.2	157	177	196	218	239	283	326	378
EER BTU/Wh	7.60	7.53	7.48	7.54	7.60	7.59	7.58	7.57	7.49	7.51	7.52	7.47	7.42	7.34	7.29	7.15
Test conditions	Condensing temperature: 130°F Suction gas temperature: 95°F Ambient temperature: 95°F Liquid temperature: 115°F															

Dimensions			
Height	inch	A B	6.89 6.65
Suction connector	location/I.D. inch angle material seal	C	0.320-0.327 18° Copper Rubber plug
Process connector	location/I.D. inch angle material seal	D	0.252-0.259 60° Copper Rubber plug
Discharge connector	location/I.D. inch angle material seal	E	0.252-0.259 60° Copper Rubber plug



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