The Cooling Workhorse: Deep Dive into the Danfoss NL7.3FT Compressor

Category: Refrigeration
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The Danfoss NL7.3FT is a cornerstone of domestic and light commercial refrigeration. Engineered for Low Back Pressure (LBP) applications using R134a refrigerant, this 1/4 HP unit offers reliability and high efficiency. In this guide, we break down the technical displacement, cooling capacity, and provide a comprehensive list of compatible replacements to ensure your cooling systems stay operational.

R134a vs. R600a Compressor Conversion

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Switching from R134a to R600a requires more than just changing the gas. This guide explains the critical “Displacement Rule”—why R600a compressors need nearly double the cylinder volume of R134a units to produce the same cooling. We cover charge calculation (45% rule), oil compatibility, and safety protocols for the modern artisan.

Compressor database chart Relay Olp

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Model	Connect current(A)	Release current(A)	Overload current(A)	Applied Temperature℃	Connect temperatur℃
117μ2010	2	1.6	4	105±10	60±10
117μ2030	3	2.6	5		
117μ2040	4	3.6	6.5		
117μ2050	4.6	4.2	6.5		

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A refrigerator compressor does not run alone; it depends on a start relay and an overload protector (OLP) to start safely and avoid burning out. The wiring diagram of compressor, relay, and OLP shows how power flows from the thermostat, through protection devices, to the motor windings, keeping domestic fridges reliable and safe.