

# Donper L65CZ1 Compressor Specs and Replacements

Category: Refrigeration

written by [www.mbsmpro.com](http://www.mbsmpro.com) | February 20, 2026



R134a, refrigerant, compressor L65CZ1, 220-240V 50Hz, LBP, 1/5 hp

## Description

**Mbsm.pro: Compressor, Donper, L65CZ1, 1/5 HP, 1Ph, 220-240V 50Hz, R134a, LBP, Refrigeration & Freezing**

## Technical Specifications Table

Feature	Details
<b>Model</b>	L65CZ1
<b>Manufacturer</b>	Donper (Dongbei Compressor)
<b>Utilisation</b>	LBP (Low Back Pressure)
<b>Domaine</b>	Domestic Refrigerators / Freezers / Wine Coolers
<b>Cooling Wattage at -23.3°C</b>	158-170 W (ASHRAE)
<b>Cubic Feet Capacity</b>	5 to 10 cu. ft. (Depending on insulation)
<b>Litres Capacity</b>	150 to 280 Liters
<b>Kcal/h</b>	136 Kcal/h
<b>TON</b>	~0.045 Tons
<b>Oil Type and Quantity</b>	POE (Polyolester) or Mineral Oil, 280-320 ml
<b>Horsepower (HP)</b>	1/5 HP
<b>Refrigerant Type</b>	R134a
<b>Power Supply</b>	220-240V / 50Hz / 1Ph
<b>Cooling Capacity BTU</b>	464 BTU/h
<b>Motor Type</b>	RSIR (Resistance Start Induction Run)
<b>Displacement</b>	6.5 cm <sup>3</sup>
<b>Winding Material</b>	Copper
<b>Pression Charge</b>	8-12 Bar (High Side)
<b>Capillary Recommendation</b>	0.028" or 0.031" (Length varies by application)
<b>Compatible Appliances</b>	Domestic refrigerators, freezers, wine coolers, beverage coolers
<b>Temperature Function</b>	-25°C to +10°C

Feature	Details
<b>With Fan or No</b>	Yes (Fan cooling required for compressor)
<b>Commercial or No</b>	Domestic/Light Commercial Grade
<b>Amperage (FLA)</b>	1.2 A to 1.5 A
<b>LRA (Locked Rotor Amps)</b>	6.0-7.5 A
<b>Type of Relay</b>	PTC Relay
<b>COP</b>	1.25 W/W
<b>Voltage Range</b>	187-254V
<b>Max Condensing Temperature</b>	60°C (Continuous) / 70°C (Short)
<b>Thermal Protection</b>	Yes (Internal Thermal Protector)
<b>Net Weight</b>	6.5-7.0 kg
<b>Origin</b>	Manufactured in China

## Efficiency Metrics (COP) Table

Performance varies based on operating conditions. Here is how the L65CZ1 performs across the temperature spectrum:

Evaporating Temp (°C)	Cooling Capacity (Watts)	Power Consumption (Watts)	COP (W/W)
-25	135	130	1.04
-20	165	140	1.18
-15	200	150	1.33
-10	240	160	1.50
-5	285	170	1.68
0	335	180	1.86
5	390	190	2.05
10	450	200	2.25

## Replacement Models

### Brand Model Number

**Donper** L65CZ1

**Donper** L65CZ variants

## 5 Replacements (Same R134a Gas)

1. **Embraco NEK6196Z** (Strong alternative, 1/5 HP, 6.5cc)
2. **Tecumseh THG1352YLS** (Classic reliable swap, 1/6 HP)
3. **Panasonic QB66C13GAX5** (Excellent domestic equivalent, 6.6cc)
4. **Cubigel GL80AA** (Similar capacity, 7.8cc)
5. **Huayi HYE11YG** (Budget-friendly alternative, 1/6 HP)

## 5 Replacements (Other Gas - R600a/R404A)

**Note:** Requires complete system flush and expansion valve/capillary adjustment.

1. **Embraco EGU80HLP** (R600a - Isobutane, very efficient, 1/6 HP)
2. **Danfoss SC10CNX** (R290 - Propane, high efficiency)
3. **Tecumseh CAJ9480Z** (R404A - Higher capacity)
4. **Secop NL9FK** (R600a compatible variant)
5. **Cubigel HM80AA** (R600a - Energy efficient)

## Key Features

- Thermally protected compressor
- Designed for Low Back Pressure (LBP) applications
- Suitable for domestic refrigerators up to 280L capacity
- RSIR motor type with PTC relay starting
- Evaporating temperature range: -25°C to +10°C
- Manufactured in China with RoHS compliance
- Energy efficient with COP of 1.25
- Low noise and vibration operation
- Wide voltage range compatibility (187-254V)

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**Focus Keyword:** Donper L65CZ1 Compressor Specs and Replacements

**SEO Title:** Mbsm.pro - Donper L65CZ1 Compressor: 1/5 HP R134a Technical Guide

**Meta Description:** Looking for L65CZ1 specs? We break down this 1/5 HP R134a Donper compressor including cooling capacity (158-170W), wiring, oil type, and the top replacement models for domestic refrigeration.

**Slug:** donper-l65cz1-compressor-1-5-hp-r134a-specs

**Tags:** Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Donper, L65CZ1, R134a, 1/5 HP, LBP, Low Back Pressure, NEK6196Z, THG1352YLS, QB66C13GAX5, GL80AA, Compressor Replacement, HVAC, Refrigeration Repair, Domestic Refrigerator, China

**Excerpt:** The Donper L65CZ1 is a reliable 1/5 HP compressor designed for R134a LBP systems, commonly found in domestic refrigerators and freezers up to 280L capacity. This guide provides the full technical data sheet, including cooling capacity (158-170W at ASHRAE), oil requirements (280-320ml), and a comprehensive list of compatible replacements for both R134a and modern alternative refrigerants to ensure your repair is successful.

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1/5 hp, Compressor Replacement, Domestic Refrigerator, Donper, GL80AA, HVAC, L65CZ1, LBP, low back pressure, mbsm, mbsm.pro, mbsmgroup, mbsmpro.com, NEK6196Z, QB66C13GAX5, R134a, Refrigeration Repair, THG1352YLS