

# Secop ES7FT.4 Compressor 1/5 HP R134a Technical Specifications and Replacements

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February 2, 2026



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**Mbsmpro.com, Compressor, ES7FT.4, 1/5 hp, Secop, Cooling, R134a, 147 W, 1.1 A, 1Ph 220-240V 50Hz, LBP, RSIR, -35°C to -10°C, Static Cooling**

The [Secop ES7FT.4](#) represents a pinnacle of energy-optimized engineering for tropical refrigeration environments. Designed specifically for low back pressure (LBP) applications, this hermetic reciprocating compressor is a reliable workhorse for household refrigerators and small

commercial freezers. Operating on [R134a](#) refrigerant, it balances thermal efficiency with the robust durability required for high-ambient temperature regions.

## Technical Specification Table

Attribute	Details
Model	<a href="#">ES7FT.4 (102G4707)</a>
Utilisation	LBP (Low Back Pressure)
Domaine	Freezing / Deep Cooling
Cooling Wattage at -23.3°C	147 Watts (CECOMAF)
Cubic Feet Capacity	Approx. 7 – 10 cu.ft
Liters Capacity	200 – 300 Liters
Kcal/h	126 kcal/h
Oil Type & Quantity	Polyolester (POE) / 180 cm <sup>3</sup>
Horsepower (HP)	<a href="#">1/5 HP</a>
Refrigerant Type	<a href="#">R134a</a>
Power Supply	220-240V / 50Hz / 1Ph
Cooling Capacity BTU	502 BTU/h
Motor Type	RSIR (Resistance Start – Induction Run)
Displacement	5.70 cm <sup>3</sup>
Winding Material	Copper
Pression Charge	Low Pressure Side
Capillary Recommendation	0.031" or 0.8mm (application dependent)
Appliance Type	Domestic Fridge, Chest Freezer, Water Dispenser
Temperature Function	-35°C to -10°C
Cooling System	Static (S)
Commercial Class	Semi-Commercial / Residential
Amperage (RLA)	1.1 A
LRA (Locked Rotor Amps)	5.4 A
Type of Relay	PTC Starter
Capacitor	N/A (RSIR Configuration)
Country of Origin	Slovakia

## Efficiency Metrics (COP) & Performance Data

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The efficiency of the [ES7FT.4](#) is measured by its Coefficient of Performance (COP). Below is the performance breakdown at various evaporating temperatures (Condensing Temp at +55°C).

Evaporating Temp (°C)	Cooling Capacity (Watts)	Power Consumption (Watts)	COP (W/W)
-35	71.6	107	0.67
-30	99.5	125	0.80
<b>-23.3 (Standard)</b>	<b>147</b>	<b>148</b>	<b>0.99</b>
-20	176	160	1.10
-15	228	179	1.27
-10	290	200	1.45

## Comparison with Alternative Models

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When comparing the [ES7FT.4](#) to other popular [1/5 HP](#) units, we see distinct differences in displacement and energy draw. For instance, the **ZMC GM70AZ** offers similar wattage but often utilizes different winding resistances. The [Secop](#) ES series is specifically “Energy Optimized,” meaning it prioritizes a lower amperage draw during the long run cycles typical of LBP freezing.

## Professional Recommendations & Field Notice

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As an expert in the field, I recommend the following for any technician installing the [ES7FT.4](#):

1. **Vacuum Procedure:** Always achieve a vacuum of at least 500 microns. [R134a](#) and POE oil are highly hygroscopic; moisture will lead to acid formation and premature motor failure.
2. **Filter Drier:** Replace the filter drier (minimum 15g-20g XH-9) every time the system is opened.
3. **Start Components:** If the compressor fails to start in high-heat environments, ensure the PTC starter is not cracked. These units rely on a clean electrical signal to engage the start winding.

## Compressor Replacements (Cross-Reference)

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### 5 Direct Replacements (R134a)

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- **Embraco:** [EMT6170Z](#) or EMY70HSC
- **Danfoss:** [TLS7F](#)
- **ZMC:** [GL70AA](#)
- **Tecumseh:** [THG1365Y](#)

- Jiaxipera: [ND1111Y](#)

## 5 Replacements (Alternative Gas – R600a)

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*Note: Requires complete system flushing and capillary adjustment.*

- [Secop](#): TLES7.5KK.3
- [Embraco](#): EMX70CLC
- [ACC/Seko](#): HMK80AA
- [Donper](#): L76CZ1
- [Huayi](#): HYE69Y

**Focus Keyphrase:** [Secop ES7FT.4](#) Compressor [1/5 HP R134a](#) Technical Specifications and Replacements

**SEO Title:** [Secop ES7FT.4](#) Compressor | [1/5 HP](#) | [R134a](#) | [Mbsmpro.com](#) Technical Guide

**Meta Description:** Detailed technical sheet for the [Secop ES7FT.4 \(102G4707\)](#) compressor. Includes [1/5 HP](#) power ratings, [R134a](#) gas data, cooling capacity tables, and 10 expert replacement options for refrigeration repair.

**Slug:** [secop-es7ft4-compressor-1-5hp-r134a-specs](#)

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**Excerpt:** The [Secop ES7FT.4](#) is a high-efficiency [1/5 HP](#) hermetic compressor engineered for [R134a](#) LBP applications. With a displacement of 5.70 cm<sup>3</sup> and a cooling capacity of 147W at -23.3°C, it is an ideal choice for tropical refrigeration. This guide provides full technical data, COP metrics, and professional replacement cross-references for HVAC technicians.



[1/5 hp](#), [102G4707](#), [EMT6170Z](#), [ES7FT.4](#), [GL70AA](#), [LBP compressor](#), [mbsm](#), [mbsm.pro](#), [mbsmgroup](#), [mbsmpro.com](#), [ND1111Y](#), [R134a](#), [Refrigerator Repair](#), [Secop](#), [THG1365Y](#), [TLS7F](#)

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