

# Tecumseh THG1374YFS Compressor Specs and Replacements

**Site:** Mbsmpro

**Date:** February 20, 2026 | **Author:** www.mbsmpro.com

**URL:** <https://mbsmpro.com/tecumseh-thg1374yfs-compressor-specs-and-replacements/>



**THG1374YFS, TH271-FS-316, refrigerant R134a, 220V 50Hz, LBP,  
1/4 HP**

# Description

**Mbsm.pro: Compressor, Tecumseh, THG1374YFS, TH271-FS-316, 1/4 HP, 1Ph, 220V 50Hz, R134a, LBP, Domestic Refrigeration**

## Technical Specifications Table

<b>Feature</b>	<b>Details</b>
<b>Model</b>	THG1374YFS / TH271-FS-316
<b>Utilisation</b>	LBP (Low Back Pressure)
<b>Domaine</b>	Domestic Refrigeration / Freezers
<b>Cooling Wattage at - 23.3°C</b>	Approx. 192 W (ASHRAE) / 147 W (CECOMAF)
<b>Cubic Feet Capacity</b>	8 to 12 cu. ft. (Depending on insulation)
<b>Litres Capacity</b>	200 to 350 Liters
<b>Kcal/h</b>	170 Kcal/h (ASHRAE) / 126 Kcal/h (CECOMAF)
<b>TON</b>	~0.055 Tons
<b>Oil Type and Quantity</b>	POE (Polyolester), 243 ml
<b>Horsepower (HP)</b>	1/4 HP
<b>Refrigerant Type</b>	R134a
<b>Power Supply</b>	220V / 50Hz / 1Ph
<b>Cooling Capacity BTU</b>	675 BTU/h (ASHRAE) / 500 BTU/h (CECOMAF)

<b>Feature</b>	<b>Details</b>
<b>Motor Type</b>	PTCS_IR (RSIR – Resistance Start Induction Run)
<b>Displacement</b>	6.96 cm <sup>3</sup>
<b>Winding Material</b>	Copper
<b>Pression Charge</b>	8-12 Bar (High Side)
<b>Capillary</b>	0.031” or 0.033” (Length varies by application)
<b>Recommendation</b>	
<b>Compatible Appliances</b>	Domestic refrigerators, small freezers, beverage coolers
<b>Temperature Function</b>	-34.4°C to -12.2°C (-30°F to 10°F)
<b>With Fan or No</b>	Yes (Fan cooling required)
<b>Commercial or No</b>	Domestic/Light Commercial
<b>Amperage (RLA)</b>	1.33 A (50Hz)
<b>LRA (Locked Rotor Amps)</b>	14 A
<b>Motor Torque</b>	LST (Low Start Torque)
<b>Compressor Cooling</b>	Fan
<b>Weight</b>	8 kg (18 lbs)
<b>Voltage Range</b>	180-242V (50Hz)
<b>Motor Resistance - Main</b>	10.92 Ohms
<b>Motor Resistance - Start</b>	20.08 Ohms
<b>Oil Viscosity</b>	32 cSt

<b>Feature</b>	<b>Details</b>
<b>Agency Approval</b>	CE Listed, IMQ Listed, IRAM Listed
<b>Origin/Exporting</b>	Designed in USA / Manufactured in Brazil

## Efficiency Metrics (COP) Table

Performance varies based on operating conditions. Here is how the THG1374YFS performs:

<b>Test Condition</b>	<b>CECOMAF</b>	<b>ASHRAE</b>
<b>Evaporating Temp</b>	-25°C (-13°F)	-23°C (-10°F)
<b>Condensing Temp</b>	55°C (131°F)	54°C (130°F)
<b>Ambient Temp</b>	32°C (90°F)	32°C (90°F)
<b>Refrigeration Capacity (W)</b>	147 W	198 W
<b>Refrigeration Capacity (BTU/h)</b>	500 BTU/h	675 BTU/h
<b>Input Power (W)</b>	157 W	163 W
<b>Efficiency (W/W)</b>	0.93	1.21
<b>Efficiency (BTU/Wh)</b>	3.18	4.14
<b>Efficiency (Kcal/Wh)</b>	0.80	1.04

## Replacement Models

<b>Brand</b>	<b>Model Number</b>
<b>Tecumseh</b>	THG1374YFS, TH271-FS-316
<b>Tecumseh</b>	TH271MS316, TH271NS250

<b>Brand</b>	<b>Model Number</b>
<b>Embraco/Aspera</b>	NEK2121Z (1/4 HP equivalent)
<b>Cubigel</b>	GL90AAA (1/4 HP equivalent)
<b>Danfoss</b>	NL7FK, NL9FK (similar capacity)
<b>Secop</b>	NL10MFX (similar application)

## 5 Replacements (Same R134a Gas)

1. **Embraco NEK2121Z** (Strong alternative, 1/4 HP, 9.27cc)  
[www.orionairsales.co.uk](http://www.orionairsales.co.uk)
2. **Cubigel GL90AAA** (Excellent domestic equivalent, 9.09cc)  
[www.aliexpress.com](http://www.aliexpress.com)
3. **Tecumseh THG1374YMS** (Same series variant) [www.scribd.com](http://www.scribd.com)
4. **Danfoss NL9FK** (LBP application, similar capacity)  
[www.orionairsales.co.uk](http://www.orionairsales.co.uk)
5. **Embraco EM3Y60H** (Compact 1/4 HP, 730 BTU/h) [www.ebay.com](http://www.ebay.com)

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

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

1. **Embraco EGU90HLP** (R600a - Isobutane, very efficient, 1/5 HP)  
[mbsmpro.com](http://mbsmpro.com)
2. **Tecumseh CAJ9480Z** (R404A - Higher capacity)
3. **Danfoss FR8.5CLX** (R600a - Propane alternative)
4. **Secop NL11FK** (R134a/R600a compatible variant)
5. **Cubigel HM90AA** (R600a - Energy efficient)

## Key Features

- All compressors with individual packaging everwellparts.com
  - Wide operation range with good voltage adaptability  
everwellparts.com
  - Low noise and vibration everwellparts.com
  - Designed for low back pressure (LBP) applications everwellparts.com
  - Evaporating temperature range: -34.4°C to -12.2°C (-30°F to 10°F)  
www.mbsm.pro
  - Thermally protected mbsmpro.com
  - CE, IMQ, and IRAM certified www.mbsm.pro
- 

**Focus Keyphrase:** Tecumseh THG1374YFS Compressor Specs and Replacements

**SEO Title:** Mbsm.pro - Tecumseh THG1374YFS Compressor: 1/4 HP R134a LBP Technical Guide

**Meta Description:** Looking for THG1374YFS specs? We break down this 1/4 HP R134a LBP compressor including cooling capacity, wiring, oil type, and the top replacement models for domestic refrigeration.

**Slug:** tecumseh-thg1374yfs-th271-fs-316-compressor-1-4-hp-r134a-lbp-specs

**Tags:** Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Tecumseh, THG1374YFS, TH271-FS-316, TH271MS316, R134a, 1/4 HP, LBP, Low Back Pressure, NEK2121Z, GL90AAA, NL9FK, Compressor Replacement, HVAC, Refrigeration Repair, Domestic Refrigerator

**Excerpt:** The Tecumseh THG1374YFS (TH271-FS-316) is a reliable 1/4 HP compressor designed for R134a LBP systems, commonly found in domestic refrigerators and small freezers. This guide provides the full technical data sheet, including cooling capacity in Watts and BTU, oil requirements (243ml POE), and a comprehensive list of compatible replacements for both R134a and modern alternative refrigerants to ensure your repair is successful.

---



1/4 HP, Compressor Replacement, GL90AAA, HVAC, LBP, low back pressure, mbsm, mbsm.pro, mbsmgroup, mbsmpro.com, NEK2121Z, NL9FK, R134a, Refrigeration Repair, Tecumseh, TH271-FS-316, TH271MS316, THG1374YFS

## Latest Articles

- [Guide de Dépannage de la Carte Inverter : Climatiseur Kolin KSM-IW20WAE](#)
- [RCFF-2HP Capillary Tube for a Samsung 18000 BTU air conditioner](#)
- [Carbon brushes washing machine motors](#)
- [Chauffe-eau Junkers : Restauration d'un Classique](#)
- [WS57H Compressor, 1/6 hp, Capacitor Requirement 4mf](#)
- [Hisense inverter expert, installtion](#)
- [Copeland D3DS5-100X 10 HP Freezer Compressor](#)
- [Bitzer 6G-30.2Y: The High-Performance 30 HP Semi-Hermetic](#)
- [Réparer un chauffe-eau à gaz Olympic 6L](#)
- [Best piping practices for semi-hermetic systems](#)
- [Core ChauffeEau Junkers Mid-1980s to Late 1990s](#)
- [Not recommended R410A to R407c](#)
- [Details of refrigerant R134a](#)
- [The electrical circuit for a timer-based steam refrigerator is an interesting one](#)
- [Changing Filter 1/5 Hp](#)
- [1/5 HP Compressor oil change: How much and how to do it right](#)
- [Deep cleaning AC units from A to Z... that's our craft](#)
- [Plumbing Fittings Explained](#)
- [Can the GL80 compressor be installed in place of the GL90?](#)
- [The process of replacing the air conditioner compressor is successful, and it is working as it was before ?](#)