

Tecumseh THG1374YFS Compressor Specs and Replacements

Category: Refrigeration

written by www.mbsmpro.com | February 20, 2026



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

Feature	Details
Model	THG1374YFS / TH271-FS-316
Utilisation	LBP (Low Back Pressure)
Domaine	Domestic Refrigeration / Freezers
Cooling Wattage at -23.3°C	Approx. 192 W (ASHRAE) / 147 W (CECOMAF)
Cubic Feet Capacity	8 to 12 cu. ft. (Depending on insulation)
Litres Capacity	200 to 350 Liters
Kcal/h	170 Kcal/h (ASHRAE) / 126 Kcal/h (CECOMAF)
TON	~0.055 Tons
Oil Type and Quantity	POE (Polyolester), 243 ml
Horsepower (HP)	1/4 HP
Refrigerant Type	R134a
Power Supply	220V / 50Hz / 1Ph
Cooling Capacity BTU	675 BTU/h (ASHRAE) / 500 BTU/h (CECOMAF)
Motor Type	PTCS_IR (RSIR - Resistance Start Induction Run)
Displacement	6.96 cm ³
Winding Material	Copper
Pression Charge	8-12 Bar (High Side)
Capillary Recommendation	0.031" or 0.033" (Length varies by application)
Compatible Appliances	Domestic refrigerators, small freezers, beverage coolers
Temperature Function	-34.4°C to -12.2°C (-30°F to 10°F)
With Fan or No	Yes (Fan cooling required)

Feature	Details
Commercial or No	Domestic/Light Commercial
Amperage (RLA)	1.33 A (50Hz)
LRA (Locked Rotor Amps)	14 A
Motor Torque	LST (Low Start Torque)
Compressor Cooling	Fan
Weight	8 kg (18 lbs)
Voltage Range	180-242V (50Hz)
Motor Resistance - Main	10.92 Ohms
Motor Resistance - Start	20.08 Ohms
Oil Viscosity	32 cSt
Agency Approval	CE Listed, IMQ Listed, IRAM Listed
Origin/Exporting	Designed in USA / Manufactured in Brazil

Efficiency Metrics (COP) Table

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

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

Replacement Models

Brand	Model Number
Tecumseh	THG1374YFS, TH271-FS-316
Tecumseh	TH271MS316, TH271NS250
Embraco/Aspera	NEK2121Z (1/4 HP equivalent)
Cubigel	GL90AAA (1/4 HP equivalent)
Danfoss	NL7FK, NL9FK (similar capacity)
Secop	NL10MFX (similar application)

5 Replacements (Same R134a Gas)

1. **Embraco NEK2121Z** (Strong alternative, 1/4 HP, 9.27cc) www.orionairsales.co.uk
2. **Cubigel GL90AAA** (Excellent domestic equivalent, 9.09cc) www.aliexpress.com
3. **Tecumseh THG1374YMS** (Same series variant) www.scribd.com
4. **Danfoss NL9FK** (LBP application, similar capacity) www.orionairsales.co.uk

5. **Embraco EM3Y60H** (Compact 1/4 HP, 730 BTU/h) 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
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 Keyword: Tecumseh THG1374YFS Compressor Specs and Replacements

SEO Title: [Mbsm.pro](http://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

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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