

Daewoo JX58LHS5-K vs Embraco FFI7.5HAK Comparison

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Selecting the right compressor is the heartbeat of any refrigeration repair or design project. Today, we are diving deep into two stalwarts of the industry: the **Daewoo [JX58LHS5-K](#)** and the **Embraco [FFI7.5HAK](#)**. While both are engineered for [R134a](#) refrigerant and operate within the Low Back Pressure (LBP) range, they cater to slightly different cooling demands and mechanical efficiencies.

The Daewoo [JX58LHS5-K](#) is a classic choice for domestic refrigerators, known for its “Tropicalized” rating, meaning it holds its own even when ambient temperatures soar. On the other hand, the [Embraco FFI7.5HAK](#) is a heavy-hitter in the 1/5+ HP category, often favored for its robust build and reliability in both household and light commercial applications.

Technical Comparison Table

Feature	Daewoo JX58LHS5-K	Embraco FFI7.5HAK
Model	JX58LHS5-K	FFI7.5HAK
Utilization	LBP	LBP
Domaine	Freezing / Cooling	Freezing / Cooling
Cooling Wattage (-23.3°C)	~140 W	~170 W
Capacity (Cubic Feet)	8 – 10 cu.ft	10 – 12 cu.ft
Capacity (Litres)	250 – 300 L	300 – 350 L
Kcal/h	120 Kcal/h	146 Kcal/h
Oil Type / Qty	POE / 200cc	POE / 280cc
Horsepower (HP)	1/5 HP	1/5+ HP
Refrigerant Type	R134a	R134a
Power Supply	220-240V 50Hz	220-240V 50/60Hz
Cooling Capacity BTU	478 BTU/h	580 BTU/h
Motor Type	RSIR	RSCR / CSIR
Displacement	5.8 cm ³	6.76 cm ³
Winding Material	Copper	Copper
Pressure Charge	0.5 – 1.2 Bar (Low side)	0.6 – 1.5 Bar (Low side)
Capillary Size	0.031" x 3m	0.036" x 3m
Ref. Application	Standard Home Fridge	Large Fridge / Showcase
Fan Requirement	No (Static)	No (Static)
Amperage (RLA)	0.8 A – 1.0 A	1.1 A – 1.3 A
LRA (Locked Rotor)	4.7 A	14.0 A
Relay Type	PTC	PTC / Current Relay
Capacitor	No	Optional (Run 5µF)
Origin	South Korea	Brazil

Efficiency Metrics (COP) & Performance Data

Efficiency is measured by the Coefficient of Performance (COP). Below is the projected performance for the [Embraco FFI7.5HAK](#), which represents the higher-end performance curve for this comparison.

Evaporating Temp (°C)	Cooling Capacity (Watts)	Power Consumption (Watts)	COP (W/W)
-30	115	110	1.05
-25	155	125	1.24
-23.3	170	132	1.29
-20	205	145	1.41
-15	265	165	1.61
-10	335	185	1.81

Direct Replacements (R134a)

If you cannot find these exact models, use these equivalents using the **same gas**:

- 1. **ZMC** [GM70AZ](#) (Reliable 1/5 HP alternative)
- 2. **Secop (Danfoss)** [TLS6F](#)
- 3. **ACC** [GVY66AA](#)
- 4. **Tecumseh** [THG1365Y](#)
- 5. **Huayi** [HYE69YG](#)

Alternative Gas Replacements (R600a Conversion)

Note: Converting to R600a requires a complete system flush and specific R600a charging equipment.

- 1. **Embraco** [EMX70CLC](#)
- 2. **Secop** [NLE7KK](#)
- 3. **Donper** [S75CZ](#)
- 4. **Jiaxipera** [T1114Y](#)
- 5. **ACC** [HMK95AA](#)

Engineering Insights: Choosing Between the Two

Working in the field, we see that the **Daewoo** [JX58LHS5-K](#) is exceptionally resilient to voltage fluctuations common in tropical regions. However, the [Embraco FFI7.5HAK](#) offers a higher displacement (6.76 cm vs 5.8 cm³), making it the superior choice if you are repairing a unit that requires faster pull-down times or operates in a high-traffic kitchen where the door is frequently opened.

Maintenance Tip: Always check the LRA (Locked Rotor Amps). The [Embraco](#)'s high LRA of 14.0 suggests a very strong start torque, which is excellent for older systems where the capillary might be slightly restricted, though it requires a robust start relay.

Focus Keyphrase: Daewoo [JX58LHS5-K](#) vs [Embraco FFI7.5HAK](#) Comparison

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Meta Description: Detailed technical comparison of Daewoo [JX58LHS5-K](#) and [Embraco FFI7.5HAK](#) compressors. Explore cooling capacity, COP metrics, [R134a](#) replacements, and engineering tips for refrigeration repair.

Slug: daewoo-[jx58lhs5-k](#)-vs-[embraco-ffi7-5hak](#)-comparison

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Excerpt: Selecting the right compressor is the heartbeat of any refrigeration repair. Today, we dive deep into the Daewoo JX58LHS5-K and Embraco FFI7.5HAK. Both use [R134a](#) and operate in the LBP range, but their cooling capacities and displacements differ, making one better suited for tropical climates and the other for high-performance pull-down needs.

OC JX58LHS5-K

220-240V ~ 50Hz

R134a

LRA 4.7

RoHS

THERMALLY PROTECTED

TROPICALIZED

DAEWOO ELECTRONICS Corp.

MADE IN KOREA



JX58LHS5-K C1192103787





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