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

Feature	Daewoo JX58LHS5-K	Embraco FFI7.5HAK
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 cm³	6.76 cm³
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.

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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.



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