

not recommended to replace compressor (Jaxipera N1113Y) with (ACC HTK70AA).

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not recommended to replace compressor (Jaxipera N1113Y) with (ACC HTK70AA).

Based on the technical specifications of both compressors, it is **not recommended** to replace the burnt-out [compressor \(Jaxipera N1113Y\)](#) with the second one ([ACC HTK70AA](#)).

Here is the technical comparison:

1. The Original Compressor (Jaxipera N1113Y)

- **Displacement:** 8.9 cm³
- **Cooling Capacity:** Approximately **154 Watts**
- **Horsepower Equivalent:** Roughly [1/6 HP](#)
- **Gas Type:** [R600a](#)

2. The Replacement Compressor (ACC HTK70AA)

- **Displacement:** 6.64 cm³
- **Cooling Capacity:** Approximately **117 Watts**
- **Horsepower Equivalent:** Roughly [1/8 HP](#)
- **Gas Type:** [R600a](#)

Why this is a bad match:

While both compressors use the same refrigerant ([R600a](#)) and voltage (220-240V), the [ACC HTK70AA](#) is significantly weaker than the original Jaxipera.

If you install it, the following problems will occur:

- 1. Poor Cooling:** The fridge will take a very long time to get cold, and it may never reach the desired temperature, especially in hot weather.
- 2. Continuous Running:** Because the [compressor](#) is undersized, it will stay “on” almost all the time to try to cool the unit.
- 3. Short Lifespan:** Working continuously will cause the replacement [compressor](#) to overheat, leading to a very short life before it burns out as well.

Conclusion:

You should look for a replacement [compressor](#) that has a cooling capacity of around **150–160 Watts** or a displacement of **8.9 cm³** (equivalent to [1/6 HP](#)). Using the [1/8 HP compressor](#) (the ACC model) will likely result in a failed repair.

Focus Keyphrase: Technical analysis of [Jaxipera N1113Y](#) and [ACC HTK70AA compressor](#) replacement compatibility

SEO Title: [Mbsmpro.com](#), [Compressor](#), [Jaxipera N1113Y](#), [ACC HTK70AA](#), [1/6 hp](#), [1/8 hp](#), [R600a](#), 220-240V, Cooling, LBP

Meta Description: Detailed technical review of the [Jaxipera N1113Y](#) and [ACC HTK70AA](#) compressors. Learn why cooling capacity and displacement matter more than just the refrigerant type when performing a replacement.

Slug: jaxipera-n1113y-vs-acc-htk70aa-[compressor](#)-technical-specifications

Tags: [Jaxipera N1113Y](#), [ACC HTK70AA](#), [R600a](#), [Compressor](#), [1/6 hp](#), [1/8 hp](#), [Mbsmgroup](#), [Mbsm](#).pro, [mbsmpro.com](#), [mbsm](#), [GL90AA](#), [HTK80AA](#), [GVY66AA](#), [EMT43HDP](#), [NLE11KK](#), [QP91Y](#), [Wanbao ETB80Y](#), [Embraco EMT43HDP](#), [Secop NLE11KK](#)

Excerpt: Selecting the right [compressor](#) for a refrigeration system is critical for long-term performance and energy efficiency. When replacing a [Jaxipera N1113Y](#), simply matching the refrigerant type is not enough. This guide breaks down the technical differences between the N1113Y and the [ACC HTK70AA](#), providing the essential data for professional technicians and refrigeration engineers.

Technical Article: The Engineering Reality of Compressor Sizing

In the field of refrigeration, a compressor is the heart of the system. For an expert technician, replacing a unit isn’t just about finding a motor that fits the mounting bracket; it is a calculation of thermal dynamics. A common question arises when a [Jaxipera N1113Y](#) fails: Can an [ACC](#)

[HTK70AA](#) serve as a reliable substitute?

The short answer is no. To understand why, we must look at the displacement and the cooling capacity (Watts). The [Jaxipera N1113Y](#) is a powerhouse in its class, designed for medium-to-large domestic refrigerators. It features a displacement of 8.9 cm³ and delivers approximately 154 Watts of cooling at Low Back Pressure (LBP) conditions.

In contrast, the [ACC HTK70AA](#) is a smaller unit. With a displacement of only 6.64 cm³, it produces around 117 Watts. When an undersized compressor like the HTK70AA is installed in a system designed for a 154W load, the compressor will run continuously, overheat, and eventually experience mechanical failure or winding burnout.

Comparative Analysis Table

Feature	Jaxipera N1113Y	ACC HTK70AA	Impact of Difference
Displacement	8.9 cm ³	6.64 cm ³	Lower volume per stroke
Cooling Capacity	154 W (~ 1/6 HP)	117 W (~ 1/8 HP)	24% loss in cooling power
Current (LRA)	~7.5 A	~6.1 A	Different torque characteristics
Efficiency (COP)	High Efficiency	Standard Efficiency	Increased energy consumption

Why “Close Enough” Isn’t Good Enough

When you install a [1/8 HP](#) compressor where a [1/6 HP](#) unit is required, the internal pressures of the refrigeration cycle change. The suction pressure will remain higher than intended because the smaller piston cannot evacuate the evaporator quickly enough. This leads to poor frost patterns and higher cabinet temperatures, especially during high ambient summer conditions.

Technical Specifications Table (Jaxipera N1113Y)

Model	Jaxipera N1113Y
Utilisation (mbp/hbp/lbp)	LBP (Low Back Pressure)
Domaine (Freezing/Cooling)	Freezing and Deep Cooling
Oil Type and quantity	Mineral/PAG (check label) 180ml
Horsepower (HP)	1/6 HP
Refrigerant Type	R600a (Isobutane)
Power Supply	220-240V ~ 50Hz
Cooling Capacity BTU	~525 BTU/h
Motor Type	RSIR / RSCR
Displacement	8.9 cm ³
Winding Material	Copper/Aluminum Alloy (Model Dependent)
Pression Charge	Low Pressure Side
Capillary	0.026 to 0.031 inch (standard)
Refrigerator Type	No-Frost / Double Door 300L-400L
Temperature Function	-35°C to -15°C
With fan or no	Usually Static (No fan required)
Commercial or no	Domestic / Light Commercial
Amperage in function	0.7 A – 0.9 A
LRA (Locked Rotor Amps)	7.5 A
Type of relay	PTC Relay
Capacitor	4µF to 5µF (Optional for RSCR)

Replacement Options for Jaxipera N1113Y

5 Recommended Replacements (Same Gas: [R600a](#))

1. ACC [HTK80AA](#): A closer match with 8.1 cm³ displacement.
2. Secop [NLE11KK](#): High-efficiency replacement for [1/6 HP](#) applications.
3. [Embraco EMT43HDP](#): Robust performance for [R600a](#) systems.
4. [Wanbao ETB80Y](#): Reliable Asian-market equivalent.
5. [Jaxipera N1112Y](#): Slightly lower power but within tolerance levels.

5 Recommended Replacements (Other Gas: R134a – Requires System Flush)

1. **ZMC [GL90AA](#)**: The industry standard for [1/6 HP](#) R134a.
2. **Embraco [GVY66AA](#)**: High-performance LBP unit.
3. **Donper [QP91Y](#)**: Reliable [1/6 HP](#) displacement equivalent.
4. **Tecumseh AEZ1380Y**: High-torque domestic compressor.
5. **Secop TLES7.5KK.3**: Equivalent displacement for R134a conversion.

Professional Engineering Advice

1. **Cleanliness is Key**: When a compressor burns out, it releases acid into the oil. Always replace the filter drier and perform a nitrogen flush.
2. **Match the Displacement**: Never go more than 10% lower in cm³ displacement.
3. **Vacuuming**: [R600a](#) systems are extremely sensitive to moisture. A deep vacuum (below 500 microns) is mandatory.
4. **Safety First**: [R600a](#) is flammable. Ensure no open flames or sparks are present during the charging process.

Question: If I have a 350-liter fridge, will the ACC HTK70AA work?

Answer: No. A 350-liter refrigerator typically requires the 154W capacity of the Jaxipera N1113Y (1/6 HP). The ACC HTK70AA ([1/8 HP](#)) is designed for smaller units (around 150-220 liters). Using it will lead to continuous running and premature failure.





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