

Jiaxipera NX1122Y R600a Compressor 1/4 hp Specs and Replacement

Category: Refrigeration

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Mbsm.pro, Compressor, Jiaxipera, NX1122Y, 1/4 hp, R600a, 200 W, 0.9 A, 1Ph 220-240V 50Hz, LBP, RSCR, -35°C to -15°C, Freezing

The Jiaxipera NX1122Y is a powerhouse in the world of domestic refrigeration. If you've cracked open the back of a modern Indesit, Hotpoint, or Whirlpool fridge lately, there is a very high chance you've seen this black "egg" sitting at the bottom. It's a high-efficiency R600a unit designed specifically for low back pressure (LBP) applications—meaning it thrives in freezers and the freezer compartments of large combi-fridges.

Technically speaking, this is an RSCR (Resistive Start Capacitive Run) motor, which helps it sip electricity rather than gulp it. With a displacement of 11.2cc, it hits that "sweet spot" of being powerful enough for large family units while remaining remarkably quiet.

Technical Specifications: Jiaxipera NX1122Y

Feature	Specification Details
Model	NX1122Y
Utilisation	LBP (Low Back Pressure)
Domaine	Freezing / Deep Freezing
Cooling wattage at -23.3°C	198 - 205 Watts
Cubic feet (approx. cool)	14 to 18 cu.ft.
Litres (approx. cool)	400 - 500 Liters
Kcal/h	172 Kcal/h
TON (Refrigeration)	0.057 Ton
Oil Type and Quantity	Mineral / POE (approx. 180ml - 220ml)
Horsepower (HP)	1/4 HP
Refrigerant Type	R600a (Isobutane)

Feature	Specification Details
Power Supply	220-240V / 50Hz / 1 Phase
Cooling Capacity BTU	682 - 700 BTU/h
Motor Type	RSCR (Run Capacitor required)
Displacement	11.2 cm ³
Winding Material	Copper
Pression Charge	Low Pressure (Suction)
Capillary Tube (Rec.)	0.031" or 0.036" (depending on length)
Refrigerator Models	Indesit, Ariston, Hotpoint, Whirlpool Bauknecht
Temperature Function	-35°C to -15°C
Fan Requirement	Static (No fan) or forced air depending on cabinet
Commercial use?	Primarily Domestic / Light Commercial
Amperage (Running)	0.85 A to 1.1 A
LRA (Locked Rotor Amps)	6.5 A
Type of Relay	PTC Start Relay
Capacitor Value	4µF or 5µF (Run Capacitor)
Country of Origin	China (Jiaxipera Compressor Co.)

Efficiency Metrics (COP)

Knowing how the compressor performs under different thermal loads is key for any tech calibrating a system.

Evaporating Temp (°C)	Cooling Capacity (Watts)	Power Consumption (Watts)	COP (W/W)
-35	115	108	1.06
-30	152	125	1.21
-23.3	200	148	1.35
-20	228	160	1.42
-15	275	178	1.54
-10	335	200	1.67

Replacement Guide

When you can't find the exact Jiaxipera model, you need something that matches the displacement and the BTU output. Here are the best alternatives:

5 Replacements (Same Gas: R600a)

1. **Embraco:** EMY70CLP or EMY80CLP
2. **Secop (Danfoss):** TLES10KK.3
3. **Siklan:** GVY11AA
4. **ACC / Cubigel:** HMK12AA
5. **Huayi:** HYB11AA

5 Replacements (Other Gas: R134a)

Note: This requires a full system flush and oil check.

1. **Embraco:** EMT6170Z (Requires expansion valve/capillary adjustment)
 2. **Secop:** TLES7.5FT.3
 3. **Jiaxipera:** NT1114Z
 4. **ACC:** GVY75AA
 5. **Tecumseh:** THG1374YS
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Focus Keyword: Jiaxipera NX1122Y R600a Compressor 1/4 hp Specs and Replacement

SEO Title: Mbsm.pro - Jiaxipera NX1122Y Compressor 1/4 HP R600a Specs & Equivalents

Meta Description: Full technical guide for the Jiaxipera NX1122Y compressor. Includes cooling capacity (Watts/BTU), amperage, wiring diagrams, and a list of 10 compatible R600a and R134a replacements for professional fridge repair.

Slug: jiaxipera-nx1122y-compressor-specs-replacement

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Excerpt: The Jiaxipera NX1122Y is a high-efficiency 1/4 HP compressor designed for modern R600a refrigeration systems. Commonly used in Whirlpool and Indesit appliances, it offers roughly 200W of cooling capacity at LBP conditions. This guide covers its full technical specifications, COP efficiency data, and provides a comprehensive list of compatible replacement models for technicians and DIY repair.



1/4 HP, Compressor, EMY70CLP, HMK12AA, Jiaxipera, LBP, mbsm, mbsm.pro, mbsmgroup, mbsmpro.com, NX1122Y, R600a, Refrigeration Repair, TLES10KK

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