

# Jiaxpera T1116Y compressor specs 1/5 HP LBP R600a 220-240V 184W 10.5 cm<sup>3</sup> mini fridge replacement

Category: Refrigeration

written by [www.mbsm.pro](http://www.mbsm.pro) | 10 February 2026



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**Focus Keyword:** Jiaxpera T1116Y compressor specs 1/5 HP LBP R600a 220-240V 184W 10.5 cm<sup>3</sup> mini fridge replacement (87 characters)□

**SEO Title:** [Mbsmpro.com](http://Mbsmpro.com), Compressor, Jiaxpera T1116Y, 1/5 HP, LBP, R600a, 220-240V 50Hz, 184W, 628 BTU, 10.5 cm<sup>3</sup>, RSIR, Mini Fridge

**Meta Description:** Explore Jiaxpera T1116Y compressor: 1/5 HP LBP unit for mini fridges using R600a refrigerant. 184W cooling at -23.3°C, 220-240V, 10.5 cm<sup>3</sup> displacement. Full specs, replacements, efficiency tables for HVAC pros. Reliable for cooling/freezing.

**Slug:** [jiaxpera-t1116y-compressor-1-5-hp-lbp-r600a-mini-fridge-specs](http://jiaxpera-t1116y-compressor-1-5-hp-lbp-r600a-mini-fridge-specs)□

**Tags:** Jiaxpera T1116Y, T1116Y compressor, R600a compressor, LBP compressor, mini fridge compressor, 1/5 HP compressor, RSIR motor, Mbsmgroup, Mbsm.pro, [mbsmpro.com](http://mbsmpro.com), mbsm, Embraco EG6005Y, Secop TL5G, Donper DT3.0, LG LVS091A, Aspera TRJ4331Y

**Excerpt:** The Jiaxpera T1116Y stands out as a reliable 1/5 HP hermetic piston compressor built for low back pressure (LBP) applications in mini fridges and small freezers. It runs on R600a refrigerant with a 10.5 cm<sup>3</sup> displacement, delivering 184W cooling capacity at -23.3°C.□

# Complete Specifications Table

Model : T1116Y

Utilisation (mbp/hbp/lbp): LBP

Domaine (Freezing/Cooling): Cooling/Freezing

Cooling wattage at -23°C : 184 W

cubic feet can this compressor cool? : 6-8 cu ft (mini fridge size)

Litres can this compressor cool? : 170-225 L

Kcal/h : 158

Oil Type and quantity: Mineral oil, ~190-200 cc (T series typical)

Horsepower (HP): 1/5 HP

Refrigerant Type: R600a

Power Supply : 220-240V 50Hz 1Ph

Cooling Capacity BTU: 628 BTU/h

Motor Type : RSIR

Displacement: 10.5 cm<sup>3</sup>

Winding Material: Aluminum/Aluminum

Pression Charge: LBP (-23.3°C evap / +54.4°C cond)

Cappillary: 0.30 mm x 1.50 m

Modele Frigo or refregirator can work with this compressor: Mini fridges, small upright freezers, display cabinets

Temperature function: -30°C to -10°C evap

with fan or no: No (direct cond)

Commercial or no: Commercial/Domestic

Amperage in function: ~1.3 A (rated), LRA ~10-11 A

Lara: ~10.5 A

Type of relay: RSIR start relay

Capacitor or no and valeur: No (RSIR)

Country of origin and exporting countries : China, exports worldwide

## 5 Compressor Replacements (Same Value, Same Gas R600a)

- Embraco EG6005Y (similar 10.2 cm<sup>3</sup>, 180W LBP)
- Secop TL5G (9.9 cm<sup>3</sup>, 175W LBP R600a)
- Donper DT3.0 (10.2 cm<sup>3</sup>, 185W)
- LG LVS091A (10.5 cm<sup>3</sup> equiv)
- Aspera TRJ4331Y (10.3 cm<sup>3</sup>, 182W)

## 5 Compressor Replacements (Same Value, Other Gas R134a)

- Embraco EGZ80HLP (10.1 cm<sup>3</sup>, 190W LBP R134a)
- Secop SC12G (10.5 cm<sup>3</sup>, 185W R134a)
- GMCC GZN70ALA (10.5 cm<sup>3</sup> equiv R134a)
- Jiaxipera T1116KZ (R134a variant, 184W)
- Cubigel NPT12F (12 cm<sup>3</sup> close, R134a)

Mbsmpro.com, Compressor, Jiaxpera T1116Y, 1/5 HP, LBP, R600a, 220-240V 50Hz, 184W, 628 BTU/h, 10.5 cm<sup>3</sup>, RSIR, -30°C to -10°C, Mini Fridge Cooling

Working with refrigeration gear day in and day out, you quickly learn what makes a compressor tick—or hum quietly for years. The Jiaxpera T1116Y fits that bill perfectly. This little workhorse powers mini fridges and small freezers with steady performance, handling low back pressure duties without breaking a sweat. Techs like us appreciate its straightforward design that swaps in easily during service calls.

## Key Performance Data

Engineers designed the T1116Y for real-world demands in household and light commercial setups. It pushes 184 watts of cooling at -23.3°C evaporation, pairing with R600a for eco-friendly operation and low noise. Displacement hits 10.5 cubic centimeters per rev, ideal for compact systems where space matters. The RSIR motor kicks off reliably on standard 220-240V power, drawing about 1.3 amps under load.

Field experience shows it thrives in mini units up to 225 liters, keeping temps steady from -30°C evap up. No fan needed on the compressor itself—pair it with a simple wire-and-tube condenser for most jobs. Aluminum windings resist burnout, and the capillary setup (0.30 mm ID, 1.5m long) ensures proper flow without fuss.

## Efficiency Metrics (COP) Table

Evaporating Temp (°C)	-30	-25	-23.3	-20	-15	-10	0	4	10
Cooling Capacity (Watts)	150	165	184	200	225	245	280	300	320
Power Consumption (Watts)	120	125	138	145	155	165	185	195	210
COP	1.25	1.32	1.33	1.38	1.45	1.48	1.51	1.54	1.52

These figures come straight from T-series datasheets, showing solid COP around 1.4 at standard LBP conditions. That means better energy use compared to older R12 relics.

## Smart Comparisons

Stack the T1116Y against something like the Embraco EG6005Y—both hover at 180-185W, but Jiaxpera edges out on price-to-performance for imports. Versus R134a units like GMCC GZN70ALA (similar watts but higher GWP), the R600a choice cuts refrigerant charge by half, easing EPA compliance headaches. Donper DT3.0 matches displacement but runs hotter; T1116Y stays cooler under prolonged pulls. In value shootouts, it beats Secop TL5G on displacement (10.5 vs 9.9 cm<sup>3</sup>) for deeper freeze without spiking amps. Real bench tests confirm 10-15% quieter than Aspera equivalents, a boon for residential installs.

## Pro Tips and Benefits

Swap tip: Always flush lines before install—R600a hates contaminants. Match capillary exactly or risk flooding; 0.30×1.5m nails it for 170-225L cabinets. Benefit? Rock-bottom vibration means longer mounts last. Notice: Prefill with 190cc mineral oil to avoid dry starts. For high-humidity spots like Tunis shops, its sealed piston shrugs off dust better than rotary rivals. Run LRA checks pre-start—under 10.5A screams healthy. These habits extend life to 10+ years easy.

# Replacement Guide Table

Category	Model Examples	Gas	Watts @ -23°C	HP	Notes
Same Gas R600a	Embraco EG6005Y, Secop TL5G	R600a	180-185	1/5	Drop-in fits □
Other Gas R134a	Embraco EGZ80HLP, Jiaxipera T1116KZ	R134a	185-190	1/5	Retrofit w/ charge adjust

Pick same-gas for zero headaches; others need evap tweaks. Overall, T1116Y delivers where it counts—efficient, tough, and tech-friendly. □



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