Kiriazi 6-Drawer No-Frost Upright Freezer: Complete Technical and Service-Level Overview

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The **Kiriazi KH256VF / UGH0044N 6-drawer no-frost upright freezer** combines 270-liter capacity, tropical hermetic compressor and digital control, making it a solid choice for hot-climate households and technicians who need clear service data. Below is a full, technician-oriented specification including compressor capacity, wattage, capillary estimates and oil characteristics.

Main cabinet specifications

Item	Specification
Brand / model	Kiriazi KH256VF / UGH0044N upright deep freezer
Type	Freestanding vertical no-frost freezer, 6 drawers
Gross / net capacity	Around 270 liters total storage
Drawers	6 storage drawers + extra ice/fast-freeze compartment
Dimensions (W × D × H)	62 × 67 × 163.6–164 cm
Cooling system	Forced-air evaporator, automatic no-frost fan system
Features	Fast-freeze mode, digital display, open-door alarm, info labels per drawer
Insulation	High-efficiency polyurethane, thickness about 8–10 cm
Cabinet material	Anti-rust steel outer body with plastic inner liner

Electrical and performance data

Parameter	Value
Power supply	220 V, 50 Hz ±10%
Compressor capacity (ASHRAE 23.3 °C)	**156 W tropical hermetic compressor**
Approx. compressor hp class	≈ **1/6 hp** low-back-pressure, typical for 250–270 L upright freezers
Cooling rating	3–4 star freezing performance
Monthly energy consumption	About **34 kWh/month**, high-efficiency class for its segment
Energy-saving features	Thick insulation, fan stop when door opens, optimized air circulation

The 156 W ASHRAE rating places the compressor firmly in the **1/6 hp** category, widely used for domestic vertical freezers because it balances pull-down speed with low running consumption.

Refrigeration circuit: refrigerant, capillary and oil

Official retail pages specify cabinet and compressor wattage but not full circuit details; the following values combine what is published for KH256VF with standard practice for similar Kiriazi no-frost systems.

Component	Typical data for KH256VF-class unit
Refrigerant	**R134a**, used widely in Kiriazi domestic uprights of this size and period
Estimated refrigerant charge	Approx. **120–150 g R134a** (230 L Kiriazi uprights use ≈120 g; 270 L models usually fall slightly higher)
Expansion device	**Capillary tube** feeding a forced-air evaporator (no-frost)

Component	Typical data for KH256VF-class unit
Practical capillary range (service reference)	Internal diameter about **0.7–0.8 mm** with **2.5–3.0 m** length for 1/6 hp R134a low-temperature application; exact factory size is not published and should be copied from the original tube when available.[1][2]
Compressor type	**Tropical hermetic LBP compressor**, designed for high ambient temperatures[1]
Recommended oil type	**POE (polyolester) oil** for R134a domestic compressors, viscosity ISO 22–32[1]
Typical oil quantity	Around **200–300 ml** for 1/6 hp hermetic can, exact value depends on compressor model plate[1][2]

Because Kiriazi does not publish a full service manual online for KH256VF, technicians should always **read the information on the compressor nameplate first** (refrigerant, oil type, charge) and then use these ranges only as a backup or design reference.[1]

Practical service notes for technicians

- When replacing a **compressor**, match hp class (1/6 hp LBP), refrigerant (R134a) and voltage (220 V, 50 Hz), and choose a tropicalized model to handle hot Tunisian and Egyptian conditions.[1]
- If the original **capillary tube** is damaged, the safest procedure is to reproduce its exact length and internal diameter; if this is impossible, start within the 0.7–0.8 mm × 2.7 m range and fine-tune by observing suction pressure, amp draw and pull-down time in accordance with standard commissioning practice.[1][2]
- Always evacuate to deep vacuum and weigh in the charge whenever the system is opened, especially with POE oil, which is highly hygroscopic and sensitive to moisture contamination.[1]

This table-driven overview gives a **field-ready technical picture** of the Kiriazi 6-drawer no-frost upright freezer, allowing you to plan repairs, retrofits or comparative evaluations with similar vertical deep-freezer models.[1]



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