
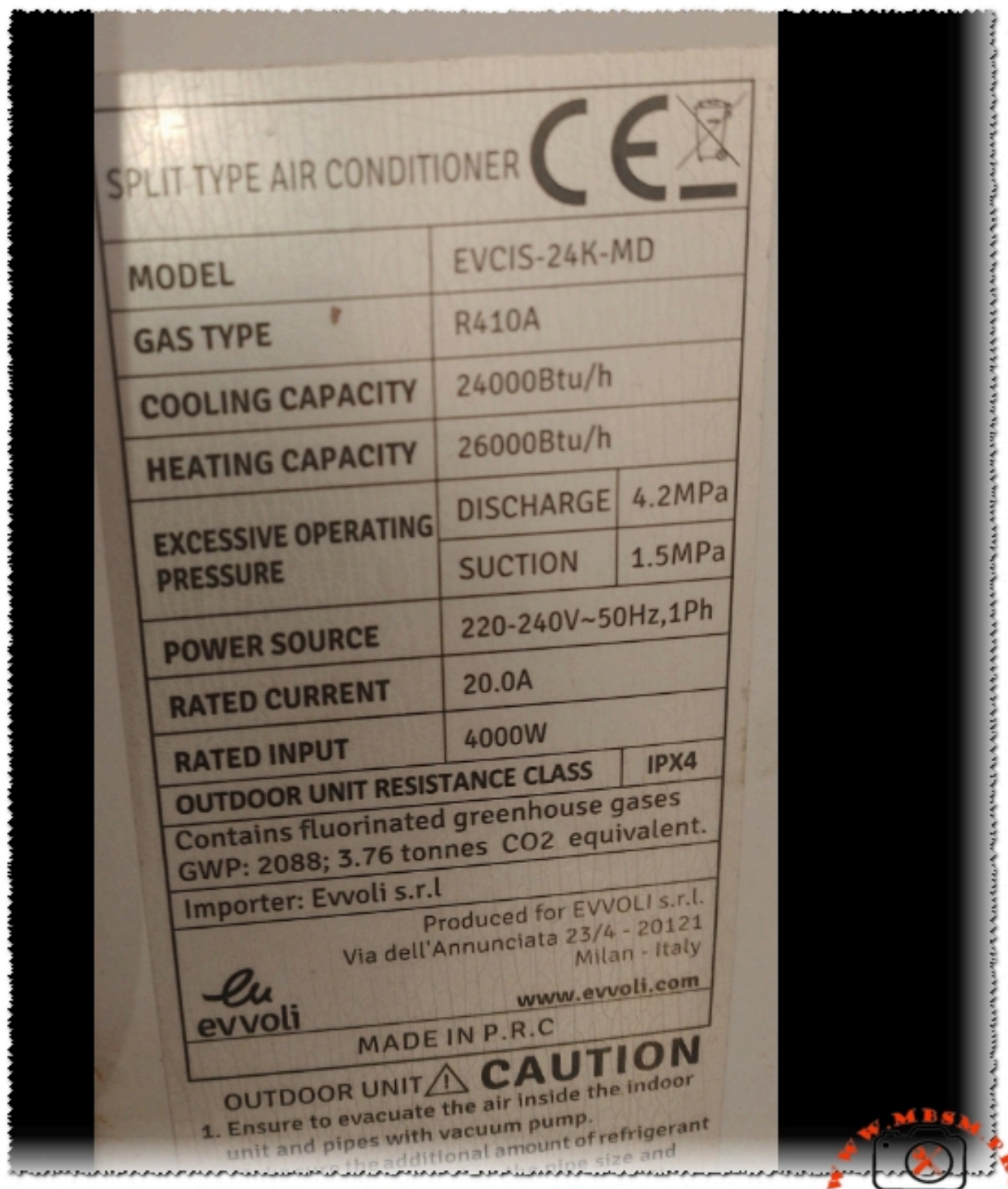


# EVCIS-24K-MD, The gas r410a charge weight is approximately 1.80 kg

 [mbsmpro.com/evcis-24k-md-the-gas-r410a-charge-weight-is-approximately-1-80-kg](http://mbsmpro.com/evcis-24k-md-the-gas-r410a-charge-weight-is-approximately-1-80-kg)

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29, Jan 2026

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Based on the technical data provided for the [Evvoli](#) air conditioning unit, here is the professional breakdown, technical table, and SEO-optimized article.

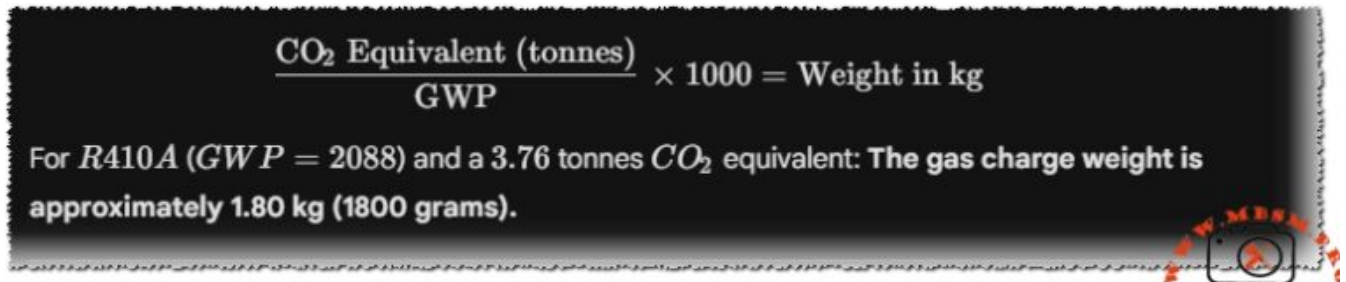
## Gas Charge Calculation

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To find the precise weight of the refrigerant, we use the Global Warming Potential (\$GWP\$) formula provided on the label:

$$\frac{\text{CO}_2 \text{ Equivalent (tonnes)}}{\text{GWP}} \times 1000 = \text{Weight in kg}$$

For *R410A* ( $GWP = 2088$ ) and a 3.76 tonnes  $\text{CO}_2$  equivalent: The gas charge weight is approximately 1.80 kg (1800 grams).



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## Technical Specifications Table

Attribute	Specification Details
Model	<a href="#">EVCIS-24K-MD</a>
Utilisation (mbp/hbp/lbp)	HBP (High Back Pressure)
Domaine (Freezing/Cooling)	Air Conditioning (Cooling & Heating)
Oil Type and quantity	POE Oil (Polyolester) / Approx. 650ml – 750ml
Horsepower (HP)	<a href="#">2.5 HP</a>
Refrigerant Type	<a href="#">R410A</a>
Power Supply	220-240V ~ 50Hz, 1Ph
Cooling Capacity BTU	24,000 Btu/h
Heating Capacity BTU	26,000 Btu/h
Motor Type	Rotary (CSR/PSC)
Displacement	22.0 to 25.0 cm <sup>3</sup>
Winding Material	High-Grade Copper
Pression Charge	Discharge: 4.2MPa / Suction: 1.5MPa
Capillary	0.070" – 0.080" ID (Typical for 2.0 Ton)
Modele Refrigerator Compatibility	Not for refrigerators; designed for Split AC Units
Temperature function	T1 Climate (-7°C to +43°C)
With fan or no	Yes (External Condenser Fan required)
Commercial or no	Light Commercial / Residential
Amperage in function	20.0 A (Maximum Load)
LRA (Locked Rotor Amps)	62 A – 70 A
Type of relay	Power Contactor / Start Relay
Capacitor or no and valeur	Run Capacitor: 55µF – 60µF / 450V

### 5 Compressor replacements (Same Gas: R410A)

1. **GMCC** PA240X2C-4FT
2. **Highly** ASD225RK-PA6AG
3. **Panasonic** 5PS225DAB02
4. **Rechi** 44R423A
5. **LG** GP250P

## 5 Compressor replacements (Other Gas: R22 Compatibility)

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*Note: Requires flushing system and changing oil/capillary.*

1. **Panasonic** 2K32C225
2. **GMCC** PH370G2C
3. **Copeland** ZR28K3-PFV
4. **Tecumseh** AW5524E
5. **Mitsubishi** KH197

## Mbsmpro.com, Compressor, EVCIS-24K-MD, 2.5 hp, Evvoli, Cooling, R410A, 24000 BTU, 20.0A, 1Ph 220-240V 50Hz, HBP

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The [Evvoli EVCIS-24K-MD](#) is a high-performance rotary compressor system specifically engineered for split-type air conditioners. Delivering a powerful 24,000 BTU cooling capacity, this unit is built to withstand extreme operating pressures, reaching up to 4.2MPa on the discharge side. Utilizing [R410A](#) refrigerant, it meets modern environmental standards while providing superior heat transfer compared to legacy R22 systems.

### Performance Dynamics and Comparison

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When comparing the [EVCIS-24K-MD](#) to standard 18,000 BTU units, the power jump is significant. While an 18K unit typically draws 12-14 Amps, this 24K beast requires a stable 20.0A feed. This makes it ideal for large living spaces or small commercial offices where consistent cooling (and heating at 26,000 BTU) is non-negotiable.

### Expert Engineering Insights

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- **Thermal Efficiency:** The unit features an IPX4 resistance class, meaning the outdoor electrical components are protected against splashing water from any direction, crucial for rainy or humid climates.
- **Installation Note:** Vacuuming the system is not optional. Moisture in an [R410A](#) system reacts with POE oil to form acid, which will eventually eat through the copper windings.
- **Protection:** Due to the 20A draw, ensure the use of a dedicated circuit breaker.

**Focus Keyphrase:** [Evvoli EVCIS-24K-MD 24000 BTU R410A](#) Compressor Specifications

**SEO Title:** [Mbsmpro.com](#), [Evvoli EVCIS-24K-MD](#), [2.5 hp](#), [24000 BTU](#), [R410A](#), 220V Technical Data

**Meta Description:** Full technical specs for [Evvoli EVCIS-24K-MD](#) Split AC. 24,000 BTU, [R410A](#) gas (1.8kg), 20A current. Includes compressor replacements (GMCC, Panasonic, LG) and wiring insights.

**Slug:** [evvoli-evcis-24k-md-compressor-specs-r410a](#)

**Tags:** [Mbsmgroup](#), [Mbsm.pro](#), [mbsmpro.com](#), [mbsm](#), [Evvoli](#), [EVCIS-24K-MD](#), [R410A](#), [24000 BTU](#), [2.5 HP](#), [GMCC PA240X2C](#), [Highly ASD225RK](#), [Panasonic 5PS225](#), [Rechi 44R423A](#), [LG GP250P](#), [Split AC Repair](#), HVAC Engineering.

**Excerpt:** The [Evvoli EVCIS-24K-MD](#) is a robust [2.5 HP](#) rotary compressor designed for 24,000 BTU split-type air conditioners. Running on [R410A](#) refrigerant with a 20.0A rated current, it offers high-efficiency cooling and heating (26,000 BTU). This technical guide explores its pressure limits, electrical requirements, and the best replacement compressors for HVAC professionals and field workers.

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