The ECQ VP115 Vacuum Pump

Category: Equipment
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Mbsmpro.com, ECQ Vacuum Pump, VP115, 2 CFM, 1/4 hp, 50 L/min, 220V, Single Stage, 5 Pa, Ultimate Vacuum, 100% Copper Wire, R134a/R410a, HVAC/R Tool

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The Unsung Hero of Your Tool Bag: The ECQ

VP115 Vacuum Pump

If you work in refrigeration or air conditioning—whether you are fixing a small fridge in a local shop or installing a split system in a new apartment—you know that moisture is the enemy. It is the silent killer of compressors. You can have the best welding skills in the world, but if you leave air inside the pipes, that unit will fail.
This is where the **ECQ VP115** comes in. It is not the biggest pump on the market, but for an **artisan bricoleur** or a technician on the move, it is often exactly what you need. It is compact, it is reliable with its **100% copper winding**, and it pulls a vacuum deep enough to degas a system properly before you recharge with **R134a** or **R410a**.

Why 2 CFM Matters for Small to Medium Jobs

Many technicians think "bigger is better," but that isn't always true. A huge 8 CFM pump is heavy and can actually pull a vacuum *too fast* on small capillary systems, causing moisture to freeze before it boils off. This **2 CFM (50 L/min)** pump is the "Goldilocks" size—perfect for:
• Domestic Refrigerators (1/5 HP to 1/3 HP compressors).
• Split Air Conditioners (9000 to 18000 BTU).
• Car Air Conditioning systems.
It is light enough to carry up a ladder but strong enough to hit **5 Pa** (approx 37 microns) of ultimate vacuum.

Technical Specifications: The "Heart" of the Pump

Here is the detailed breakdown of what this machine offers.

Feature	Specification
Model	**VP115**
Voltage / Frequency	220V~50Hz / 60Hz
Free Air Displacement	**2 CFM** (approx. 50 L/min)
Ultimate Vacuum	**5 Pa** (0.05 mBar)
Motor Power	**1/4 HP**
Motor Type	**100% Copper Winding** (High durability)
Oil Capacity	**320 ml**
Intake Fitting	1/4″ Flare (Standard SAE)
Dimensions	275 x 122 x 220 mm
Net Weight	~5.3 kg
Application	R134a, R22, R410a, R407c

Comparison: VP115 (Single Stage) vs. Dual Stage Pumps

When you are deciding between a single-stage pump like this and a more expensive dual-stage unit, it helps to see the difference clearly.

Characteristic	VP115 (Single Stage)	Typical Dual Stage (e.g., 2VP-2)	Verdict
Vacuum Depth	**5 Pa** (Good)	**0.3 Pa** (Excellent)	Single stage is fine for standard repairs; Dual is for deep-freeze/scientific work.
Weight	**~5 kg** (Light)	**~10 kg** (Heavy)	VP115 is much easier to carry to rooftops.
Price	**Affordable**	**Expensive**	VP115 offers better ROI for general repairs.
Maintenance	**Simple Oil Change**	**Complex**	Single stage is more forgiving with dirty oil.

Performance Analysis: Speed vs. Quality

Let’s compare how this pump performs against other common sizes when evacuating a standard **12,000 BTU Split AC**.

Pump Size	Time to 500 Microns	Risk of Freezing Moisture	Best Use Case
1 CFM (Small)	45+ Minutes	Low	Very small fridges only.
2 CFM (VP115)	**20-25 Minutes**	**Balanced**	**Residential AC & Fridges.**
6 CFM (Large)	5-8 Minutes	High (if not careful)	Commercial chillers / Large VRF.

> *Pro Tip: Always use a micron gauge. The sound of the pump changing pitch is a good sign, but it is not a measurement!*

Maintenance & Troubleshooting

To keep your **VP115** running for years, follow this simple maintenance schedule.

Symptom	Probable Cause	Solution
Poor Vacuum	Dirty or low oil	Drain oil while warm and refill with fresh vacuum oil.
Oil Mist at Exhaust	Normal operation	This is normal when pumping large amounts of air at the start.
Pump Overheating	Low voltage or blocked fan	Check your extension cord gauge and clean the fan cover.
Hard Start	Cold weather	Warm up the oil or open the inlet port briefly to relieve pressure.



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ECQ Vacuum Pump VP115 2CFM 1/4HP
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Excerpt:

The ECQ Vacuum Pump VP115 is the ideal tool for the artisan bricoleur. With 2 CFM displacement and a durable 1/4 HP motor, it perfectly balances portability and power for residential AC and fridge repairs. This guide covers specifications, maintenance, and why 100% copper winding matters for your daily work.

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