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Fieldpiece VP87

Fieldpiece VP87 Vacuum Pump Instruction Manual

Model: VP87

Brand: Fieldpiece

INTRODUCTION

The Fieldpiece VP87 Vacuum Pump is a professional-grade HVAC tool designed for efficient and reliable system evacuation. Featuring an 8 CFM flow rate and a powerful 3/4 HP DC motor, it is built for both residential and commercial applications. Its innovative RunQuick Oil Change System simplifies maintenance, allowing for quick and mess-free oil changes without interrupting the vacuum process. The VP87 is also A2L compatible, making it suitable for use with modern refrigerants.



Image: The Fieldpiece VP87 Vacuum Pump, a robust yellow and black unit with clear oil reservoirs and multiple ports.

Key Features & Benefits

- **Fast Evacuation:** 8 CFM flow rate with a deep 15-micron vacuum.
- **Reliable Power:** 3/4 HP DC motor operates in low-voltage conditions.
- **Quick, Mess-Free Oil Changes:** Revolutionary RunQuick Oil Change System.
- **Rugged & Portable:** Sturdy base, small footprint (1,346 cubic inches), and lightweight (27 lbs).
- **Versatile & Smart Features:** Multiple port sizes, quarter-turn gas ballast, removable cord storage, and error messaging.
- **Safe & Certified:** A2L compatible for use with modern refrigerants.

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Features & Benefits:

- ✓ Fast Evacuation: 8 CFM flow rate with a deep 15-micron vacuum
- ✓ Reliable Power: ¾ HP DC motor operates in low-voltage conditions
- ✓ Quick, Mess-Free Oil Changes: RunQuick® Oil Change System with backlit reservoir
- ✓ Rugged & Portable: Sturdy base, small footprint (1,346 cubic inches), and lightweight (27 lbs.)
- ✓ Versatile & Smart Features: Multiple port sizes, quarter-turn gas ballast, removable cord storage, and error messaging
- ✓ Safe & Certified: A2L compatible for use with modern refrigerants



Image: A graphic highlighting the key features and benefits of the Fieldpiece VP87 Vacuum Pump, including its fast evacuation, reliable power, and RunQuick Oil Change System.

WHAT'S INCLUDED

Upon unpacking your Fieldpiece VP87 Vacuum Pump, please verify that all components are present:

- (1) VP87 Vacuum Pump
- (2) 8 oz. oil bottles
- (1) Appropriate power plug

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The best keep getting better.

The Fieldpiece VP87 Vacuum Pump shortens evacuation times and saves you time on the jobsite. This lightweight, portable but powerful pump lets you quickly and properly perform system evacuations and its large oil reservoir window gives you a clear view to assess the condition of the oil.



What's Included:

- (1) VP87 Vacuum Pump
- (2) 8 oz. oil
- (1) Appropriate plug

Image: A visual representation of the Fieldpiece VP87 Vacuum Pump and its included accessories: the pump unit, two bottles of vacuum pump oil, and the power cord.

SETUP

1. **Initial Oil Fill:** Before first use, ensure the oil reservoir is filled to the MAX line using the provided Fieldpiece vacuum pump oil. Unscrew the large black cap on top of the unit and carefully pour the oil into the reservoir. The clear sight glass allows you to monitor the oil level.
2. **Power Connection:** Connect the power cord to the designated port on the side of the vacuum pump. Ensure the connection is secure to prevent accidental disconnection during operation.
3. **Hose Connection:** The VP87 features four inline ports for hose management: 1/4", 1/2", and two 3/8" ports. Connect your vacuum hoses to the appropriate ports on the pump and to the system being evacuated. Ensure all connections are tight to prevent leaks.

OPERATING INSTRUCTIONS

1. **Power On:** Flip the power switch to the 'ON' position. The pump will begin operation.
2. **Gas Ballast Valve:** For initial pull-down, it is recommended to open the gas ballast valve (located on the side of the unit) to help remove moisture and speed up the process. Once the vacuum reaches approximately 3000 microns, close the gas ballast valve for a deeper vacuum.
3. **Monitoring Vacuum:** Use a micron gauge (not included) to monitor the vacuum level of the system. Continue operation until the desired vacuum level is achieved.
4. **RunQuick Oil Change System:** This system allows for oil changes without shutting down the pump or losing vacuum.
 - To drain old oil: While the pump is running, open the valve on the left oil reservoir. The old oil will drain into the empty container.
 - To add new oil: Close the drain valve. Remove the black cap on top of the unit and pour new Fieldpiece vacuum pump oil into the reservoir until the level is between the MIN and MAX lines in the sight glass.
5. **Exhaust Port:** A garden hose can be connected to the exhaust port on the side of the unit to direct exhaust away from the work area.

Your browser does not support the video tag.

Video: An official Fieldpiece video providing an overview of the Fieldpiece Vacuum Pumps, highlighting their power, stability, multiple ports, and the convenient RunQuick Oil Change System. It also mentions A2L compatibility.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Fieldpiece VP87 Vacuum Pump.

- **Oil Changes:** The RunQuick Oil Change System allows for easy oil changes. Monitor the oil in the sight glass; change oil when it appears dirty or discolored. Always use genuine Fieldpiece vacuum pump oil.
- **Cleaning:** Keep the exterior of the pump clean and free of debris. Regularly check the air intake and exhaust vents for obstructions and clear them to ensure proper airflow and cooling.
- **Storage:** When not in use, store the vacuum pump in a clean, dry environment. Ensure all ports are capped to prevent contaminants from entering the pump.

TROUBLESHOOTING

If you encounter issues with your VP87 Vacuum Pump, refer to the following common troubleshooting steps:

- **Pump Not Starting:**
 - Check power connection and ensure the power switch is in the 'ON' position.
 - Verify the power outlet is functional.
- **Slow Vacuum Pull-Down:**
 - Check for leaks in hoses or system connections.
 - Ensure the oil is clean and at the correct level. Dirty oil can significantly reduce performance.
 - Confirm the gas ballast valve is open during initial pull-down, then closed for deeper vacuum.
 - Check for obstructions in the pump's intake or exhaust.
- **Oil Discoloration/Contamination:**
 - Perform an oil change using the RunQuick Oil Change System.
 - Ensure the system being evacuated is free of excessive moisture or contaminants before connecting the pump.

For issues not covered here, please contact Fieldpiece customer support.

SPECIFICATIONS

Attribute	Value
Flow Rate	8 CFM
Oil Capacity	8oz (237mL)
Oil Compatibility	Fieldpiece Vacuum Pump Oil (Highly refined and optimized for proper sealing and lubrication)
Oil Drain	Ball valve
Port Sizes	(1) 1/4", (2) 3/8", (1) 1/2"
Compressor	Rotary vane, two stage
Motor	3/4 HP Brushless DC
RPM	2500
Power Source	120 VAC @ 60 Hz 1 phase
Nominal Current Draw	6.0 AAC
Ultimate Vacuum at Input Ports	15 microns
Dimensions	19.72"L x 11.65"W x 15.98"H (201 mm x 296 mm x 406 mm)
Weight	27 lb / 12.4 kg
Operating Environment	30°F to 122°F (-1.1°C to 50°C)

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Specifications

Flow Rate: 8CFM

Oil Capacity: 8oz (237mL)

Oil Compatibility: Fieldpiece Vacuum Pump Oil (Highly refined and optimized for proper sealing and lubrication)

Fieldpiece part numbers: OIL8X3, OIL32, OIL128

Oil Backlight: Blue LED

Oil Drain: Ball valve

Port Sizes: (1) 1/4", (2) 3/8", (1) 1/2"

Compressor: Rotary vane, two stage

Motor: 3/4 HP Brushless DC

RPM: 2500

Power Source: 120 VAC @ 60 Hz 1 phase

Nominal Current Draw: 6.0 AAC

Ultimate Vacuum at Input Ports: 15 microns

Dimensions: 7.9 inch x 11.7 inch x 16.0 inch (201 mm x 296 mm x 406 mm)

Weight: 27 lb / 12.4 kg

Operating Environment: 30°F to 122°F (-1.1°C to 50°C)



Image: A detailed table outlining the technical specifications of the Fieldpiece VP87 Vacuum Pump, including flow rate, oil capacity, motor type, and dimensions.

WARRANTY INFORMATION



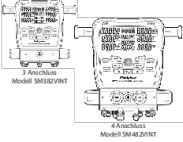
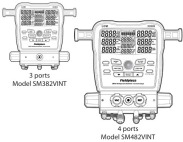
For detailed warranty information regarding your Fieldpiece VP87 Vacuum Pump, please refer to the official Fieldpiece website or the warranty card included with your product. Warranty terms and conditions may vary.

SUPPORT

If you require further assistance or have questions about your Fieldpiece VP87 Vacuum Pump, please contact Fieldpiece customer support:

- **Website:** www.fieldpiece.com
- **Phone:** Refer to the contact section on the official website for regional support numbers.

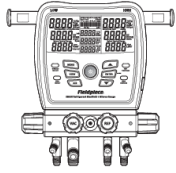
Related Documents - VP87

<p>Fieldpiece</p> <p>Vacuum Pump with RunQuick™ Oil Change System</p> <p>OPERATOR'S MANUAL</p> <p>Models VPX7, VP87, VP67, VPX2UK, VP82UK</p> 	<p>Fieldpiece Vacuum Pump with RunQuick™ Oil Change System Operator's Manual</p> <p>Operator's manual for Fieldpiece VPX7, VP87, and VP67 vacuum pumps with RunQuick™ Oil Change System. Covers operation, safety, maintenance, and troubleshooting for professional HVAC/refrigeration use.</p>
<p>Fieldpiece</p> <p>Vacuum Pump with RunQuick™ Oil Change System</p> <p>OPERATOR'S MANUAL</p> <p>Models VP55 and VP85</p> 	<p>Fieldpiece VP55/VP85 Vacuum Pump Operator's Manual - RunQuick Oil Change System</p> <p>Operator's manual for Fieldpiece VP55 and VP85 vacuum pumps featuring the RunQuick™ Oil Change System. Covers operation, maintenance, safety, troubleshooting, and specifications for HVAC/R professionals.</p>
<p>Fieldpiece</p> <p>SMAN® Kältemittelverteiler mit integriertem Unterdruckmessgerät</p> <p>BEDIENUNGSANLEITUNG</p> 	<p>Fieldpiece SMAN® Kältemittelverteiler mit integriertem Unterdruckmessgerät: Bedienungsanleitung</p> <p>Umfassende Bedienungsanleitung für die Fieldpiece SMAN® Kältemittelverteiler Modelle SM382VINT und SM482VINT mit integriertem Unterdruckmessgerät. Enthält Informationen zu Installation, Betrieb, Wartung und technischen Daten.</p>
<p>Fieldpiece</p> <p>SMAN® Kølemiddelmanifold med indbygget vakuummåler</p> <p>BRUGSVEJLEDNING</p> 	<p>Fieldpiece SMAN Kølemiddelmanifold Brugsvejledning SM382VINT SM482VINT</p> <p>Denne brugsvejledning giver detaljeret information om Fieldpiece SMAN® kølemiddelmanifolden med indbygget vakuummåler. Dækker funktioner, drift, vedligeholdelse og specifikationer for modellerne SM382VINT og SM482VINT, designet til HVACR-professionelle.</p>

Fieldpiece

SMAN™ Refrigerant
Manifold + Micron
Gauge (4 Port)

OPERATOR'S MANUAL Model SM480V



[Fieldpiece SM480V SMAN Refrigerant Manifold + Micron Gauge Operator's Manual](#)

Operator's manual for the Fieldpiece SM480V SMAN Refrigerant Manifold + Micron Gauge (4 Port). This guide covers features, operation, maintenance, and specifications for this professional HVAC tool.



[Fieldpiece JL3PR Job Link System Pressure Probe Operator's Manual](#)

Operator's manual for the Fieldpiece JL3PR Job Link System Pressure Probe, including quick start guide, description, maintenance, specifications, operation, limited warranty, and obtaining service information.