



# ***BluVac<sup>+</sup> LTE***

**ACCUTOOLS®**

## Wireless Digital Vacuum Gauge



### User's Guide

## Introduction

Thank you for your purchase of the **AccuTools® BluVac+ LTE Wireless Digital Vacuum Gauge**. Utilizing patented technology, the **BluVac+ LTE** is the most accurate vacuum gauge available.

With the **BluVac+ LTE**, you can accurately measure vacuum pressure in Microns, Pascals, Millibar, Millitorr, and mmHg with a resolution of 1 micron. Ideal for the HVAC/R professional, the **BluVac+ LTE** is small, lightweight, rugged and easy to use

## Features

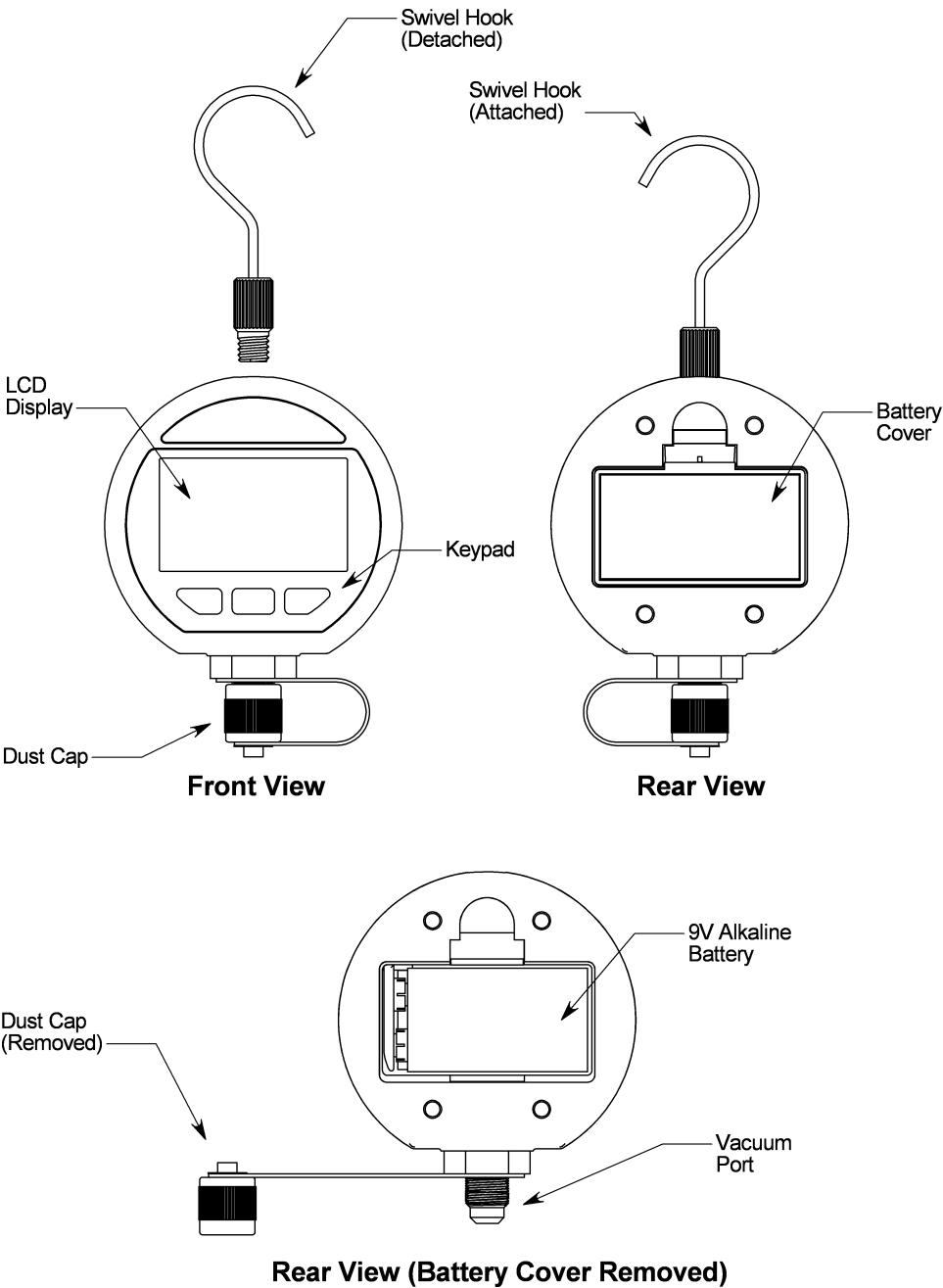
- Large, high-visibility back-lit LCD display
- Measures Vacuum in Microns, Pascals, Millibar, Millitorr and mmHg
- 0 to 25,000 Micron Range with 1 Micron Resolution
- "Analog" Vacuum Level Bar Graph and Evacuation Indicator
- Vacuum Leak Rate Indicator
- Automatic Oil Sensor
- Built-in memory retains all previous settings
- Rugged, Compact Design with Protective Rubber Boot
- Long Battery Life
- Calibration Self Test -- Can be field calibrated with no special equipment
- Ideal for HVAC/R Service and Industrial Use

## Specifications

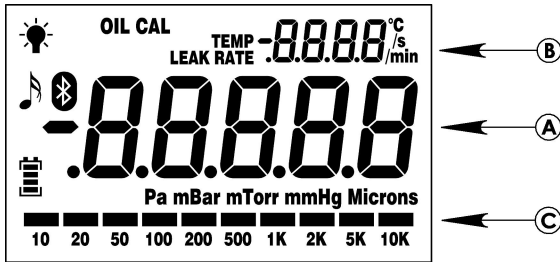
|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Range:                 | 0 – 25,000 Microns<br>(3333 Pa, 33.330 mBar, 25,000 mTorr, 25.000 mmHg)       |
| Vacuum Accuracy:       | 5% of Reading +/- 5 Microns                                                   |
| Vacuum Resolution:     | 1 Micron<br>(1 Pa, 0.001 mBar, 1 mTorr, 0.001 mmHg)                           |
| Warm-up Time:          | Instant                                                                       |
| Response Time:         | Instant                                                                       |
| Power:                 | 9V Alkaline Battery<br>(9V Lithium recommended for low temperature operation) |
| Battery Life:          | Up to 300 Hours (Bluetooth Disabled)                                          |
| Operating Temperature: | 10°F – 122°F (-12°C – 50°C)                                                   |
| Maximum Overpressure:  | 1,000 PSI                                                                     |
| Vacuum Port Fitting:   | ¼" Male Flare – Nickel Plated for Durability with Dust Cap                    |
| Weight:                | 6 oz. (170g) including Battery and Swivel Hook                                |
| Dimensions:            | 3.5" x 3" x 1.25" (9cm x 7.5cm x 3cm)                                         |
| Wireless Range:        | Up to 100m (328') Line-of-Sight                                               |

**WARNING:** To avoid personal injury and to prevent damage to the *BluVac+ LTE* Digital Vacuum Gauge, never exceed 1,000 PSI.

**Parts Diagram**



## LCD Display



| Item                                                                              | Function                                                                                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| A                                                                                 | Main Numeric Display                                                                          |
| B                                                                                 | Alternate Numeric Display                                                                     |
| C                                                                                 | "Analog" Vacuum Level Bar Graph and Evacuation Progress Indicator                             |
|  | Backlight Indicator. Flashing: Temporary, Solid: Always On                                    |
|  | Sound Indicator                                                                               |
|  | Bluetooth® Indicator. Flashing: Advertising, Solid: Connected                                 |
|  | Battery Level Indicator                                                                       |
| <b>OIL</b>                                                                        | Oil Sensor Indicator                                                                          |
| <b>CAL</b>                                                                        | Calibration Mode Indicator                                                                    |
| <b>TEMP</b>                                                                       | Indicates that Temperature is Displayed on the Alternate Numeric Display (during calibration) |
| <b>°C</b>                                                                         | Indicates degrees Celsius on the Alternate Numeric Display (during calibration)               |
| <b>LEAK RATE</b>                                                                  | Indicates that the Vacuum Leak Rate is Displayed on the Alternate Numeric Display             |
| <b>/s/min</b>                                                                     | Indicates that the Vacuum Leak Rate is Displayed in UNITS/second or UNITS/minute.             |
| <b>Pa</b>                                                                         | Pascal Units Indicator                                                                        |
| <b>mBar</b>                                                                       | Millibar Units Indicator                                                                      |
| <b>mTorr</b>                                                                      | Millitorr Units Indicator                                                                     |
| <b>mmHg</b>                                                                       | Millimeters of Mercury Units Indicator                                                        |
| <b>Microns</b>                                                                    | Micron Units Indicator                                                                        |

# Keypad



| Item                                                                              | Function                                                                                                                |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|   | Press to Turn Power On.<br>Press and Hold to Turn Power Off.<br>While power is off, Press and Hold for Calibration Test |
|   | Press to Change Display Units.<br>Press and Hold to Change Leak Rate Display Units (/s or /min)                         |
|   | Press and Release to Activate/Deactivate Bluetooth Wireless Functionality                                               |
|  | Press and Release to Activate Backlight                                                                                 |
|  | Press and Hold to Mute/Un-mute Sound                                                                                    |

## Quick Start

To operate the *BluVac+ LTE* as a basic vacuum gauge:

1. Install the battery as described in the “Battery Installation” section below.
2. Turn the power on by pressing . The display will show *H I -P* to indicate pressure greater than 25,000 Microns.
3. Select the desired units by repeatedly pressing .
4. Attach the *BluVac+ LTE* to the system to be evacuated with a high quality vacuum hose. Start the vacuum pump. Read the vacuum level from the Main Display.
5. Turn the power off by pressing and holding .

**WARNING:** To avoid damaging the BluVac+, only hand-tighten sensor connection. If greater torque is required, support the sensor housing with a 3/4" wrench.

**NOTE:** To assist in the use of this gauge and the interpretation of vacuum information, please refer to the *Frequently Asked Questions* Section at the end of this guide.

## Battery Installation & Replacement

1. If installed, remove the protective boot.
2. Remove the battery cover from the rear of the *BluVac+ LTE* by compressing tab at the base of the battery cover.
3. If necessary, remove and detach old battery from battery clip.
4. Attach battery clip to new battery and insert into battery compartment. Replace battery cover by aligning tab and snapping back into place.
5. Reinstall the protective boot.

**IMPORTANT: TO PREVENT DAMAGE FROM LEAKING BATTERIES, DO NOT LEAVE A DEAD BATTERY INSIDE THE *BluVac+ LTE*. REMOVE BATTERY IF THE *BluVac+ LTE* IS NOT TO BE USED FOR AN EXTENDED PERIOD OF TIME.**

## Battery Level Indicator

The battery level indicator shows the relative strength of the battery. Four bars indicate full power. As the battery is depleted, the number of bars displayed decreases, until no bars are left. At this point, it is necessary to replace the batteries (refer to the Battery Installation section above). If the battery power drops to the point where the *BluVac+ LTE* can no longer function accurately, the alarm will beep 10 times and the power will turn off automatically. When the battery is replaced, and the *BluVac+ LTE* is turned back on, the *BluVac+ LTE* will resume operation with all previous settings intact.

## Hi-Pressure Indication

If the sensed vacuum pressure exceeds 25,000 Microns (3333.1 Pa, 33.331 mBar, 25,000 mTorr, or 25,000 mmHg), the display will show **H I-P**.

## Units

Change the displayed units by pressing the  key on the keypad. The appropriate units indicator on the LCD display will show **Pa**, **mBar**, **mTorr**, **mmHg**, or **Microns** depending on the units set.

## Sleep Mode

Unlike other Digital Vacuum Gauges, the *BluVac+ LTE* helps to conserve battery life through advanced power management. After 5 minutes of displaying **H I-P**, the *BluVac+ LTE* will enter "Sleep Mode" in which the sensor and backlight are turned off, thus reducing the load on the battery and extending the battery life up to 300 hours or more. While in this mode, the display will show **SLEEP**. Approximately every 35 seconds, the gauge will automatically check the pressure and exit Sleep Mode if the pressure is less than 25,000 Microns. The gauge can be manually brought out of Sleep Mode by pressing any key on the keypad. While in Sleep, the gauge will beep twice every 5 minutes to remind you that it is on. The *BluVac+ LTE* will not sleep in the Calibration Mode (see the Calibration section below), or if the wireless function is activated and a connection is active.

## Auto Power-Off

After 1 hour in "Sleep Mode" the *BluVac+ LTE* will automatically turn itself off to further conserve battery power.

## Oil Sensor

Prevent oil from being drawn into the Vacuum Sensor. For HVAC/R service, always recover refrigerant prior to attaching gauge. If possible, always close the blank-off valve on the vacuum pump prior to turning the vacuum pump off. Over time, oil vapor and other materials may contaminate the sensor. The *BluVac+ LTE* has a built in Oil Sensor that will detect this condition. If the **OIL** indicator on the display illuminates, this is an indication that the vacuum sensor has been contaminated and is no longer functioning accurately. If the sensor becomes completely saturated with oil to the extent that it cannot function properly at all, the message **-OIL-** will show on the display. Prior to further use of the *BluVac+ LTE*, clean the sensor as describe in the "Cleaning the Vacuum Sensor" section below.

## Backlight

To activate the Backlight temporarily, press  once. The  indicator on the display will flash, and the backlight will turn off automatically after 1 minute. To activate the Backlight permanently, press  again. The  indicator on the display will show solid. Turn off the backlight by pressing  repeatedly until the  indicator turns off. During Sleep Mode, the backlight will turn off to help conserve battery power, but will turn on again automatically upon resumption of normal operation if it was previously set in the permanent-on mode.

## Sound

The *BluVac+ LTE* has an internal speaker that will emit a beep for each valid key press, and also functions as an alarm in the Calibration mode (see the Calibration section below). It will also beep every 5 minutes in Sleep Mode. For silent operation, the sound can be muted by pressing and holding the  key. The Calibration mode alarm is not affected by the mute status. The  indicator on the LCD display indicates that the sound is on (not muted).

## Range and Resolution

The *BluVac+ LTE* has a broad vacuum pressure measurement range and very high resolution according to the table below:

|                   | Vacuum Range | Resolution |
|-------------------|--------------|------------|
| Pascals (Pa)      | 0 — 3,333.1  | 0.1 Pa     |
| Millibar (mBar)   | 0 — 33.331   | 0.001 mBar |
| Millitorr (mTorr) | 0 — 25,000   | 1 mTorr    |
| mmHg (mmHg)       | 0 — 25.000   | 0.001 mmHg |
| Microns (Microns) | 0 — 25,000   | 1 Micron   |

## "Analog" Vacuum Level Bar Graph

The Vacuum Level Bar Graph has two modes:

### Evacuation Progress Indicator

When the pressure is above 25,000 microns (when the display shows  $H I - P$ ), the Bar Graph indicates evacuation progress. The bars progressively drop as the pressure drops between ATM and 25,000 microns.

### Vacuum Level Indicator

Below 25,000 microns, the Bar Graph allows for a quick visual determination of the vacuum level achieved. Each bar corresponds to a vacuum pressure range depending on units according to the following table:

| Bar Value | Units          |             |             |                |             |
|-----------|----------------|-------------|-------------|----------------|-------------|
|           | Microns        | Pa          | Millibar    | Millitorr      | mmHg        |
| 10K       | 10,000 — ATM   | 1,000 — ATM | 10 — ATM    | 10,000 — ATM   | 10 — ATM    |
| 5K        | 5,000 — 10,000 | 500 — 1,000 | 5 — 10      | 5,000 — 10,000 | 5 — 10      |
| 2K        | 2,000 — 5,000  | 200 — 500   | 2 — 5       | 2,000 — 5,000  | 2 — 5       |
| 1K        | 1,000 — 2,000  | 100 — 200   | 1 — 2       | 1,000 — 2,000  | 1 — 2       |
| 500       | 500 — 1,000    | 50 — 100    | 0.5 — 1     | 500 — 1,000    | 0.5 — 1     |
| 200       | 200 — 500      | 20 — 50     | 0.2 — 0.5   | 200 — 500      | 0.2 — 0.5   |
| 100       | 100 — 200      | 10 — 20     | 0.1 — 0.2   | 100 — 200      | 0.1 — 0.2   |
| 50        | 50 — 100       | 5 — 10      | 0.05 — 0.1  | 50 — 100       | 0.05 — 0.1  |
| 20        | 20 — 50        | 2 — 5       | 0.02 — 0.05 | 20 — 50        | 0.02 — 0.05 |
| 10        | 10 — 20        | 1 — 2       | 0.01 — 0.02 | 10 — 20        | 0.01 — 0.02 |

## Alternate Numeric Display

The BluVac+ LTE has an Alternate Numeric Display that can indicate Vacuum Leak Rate.

The Vacuum Leak Rate Indicator displays the rate of change of vacuum *per second* or *per minute* in the selected units when the **LEAK RATE** indicator is illuminated. The reading is positive for increasing pressure and negative for decreasing pressure. The Leak Rate Indicator is useful for determining the size of a vacuum leak, if one exists, or the presence of moisture or outgassing. Under high-pressure conditions ( $H I - P$ ), the leak rate indicator shows ---.

Press and hold the  key while the **LEAK RATE** indicator is showing to switch between *per second* and *per minute*, as indicated by **/s** and **/min** on the display.

## Swivel Hook

The BluVac+ LTE's removable stainless steel swivel hook enables hanging of the gauge and will allow it to swivel freely in any direction. The gauge may be operated with or without the hook attached. When fastening the hook to the gauge, turn it finger tight only. Use of a tool to tighten the hook may result in damage to the BluVac+ LTE case.



## Wireless Operation

Press and release  to turn the Bluetooth radio on and off. When turned on, the  icon will flash in the display. This is an indication that the radio is on and advertising (i.e. waiting for a connection from a mobile app). When a connection is made by a mobile app, the  icon will illuminate solid (not flashing).

For mobile application operating instructions, please refer to the instructions and help material included with the application.

For a list of mobile applications compatible with the AccuTools BluVac+ Pro, please refer to the AccuTools website at [www.accutools.com](http://www.accutools.com), or scan directly with your mobile device:



App Store (iOS)



Google Play  
(Android)

## Maintenance

The *BluVac+ LTE* should provide many years of service with no maintenance required. When not in use, the dust cap should remain in place over the sensor port. Clean the plastic enclosure with a damp (not wet) rag. Mild detergent is acceptable, but use no solvents. Take care not to expose the vacuum sensor to oil. If the Oil Sensor (described above) indicates a contaminated sensor, follow the Sensor Cleaning Procedure below.

## Cleaning the Vacuum Sensor

If the vacuum sensor becomes contaminated with oil (as indicated by the Oil Sensor), carefully follow this procedure:

1. Turn the *BluVac+ LTE* power off.
2. Shake the gauge to remove any large quantities of oil from the sensor.
3. Apply a few drops of rubbing alcohol inside the sensor vacuum port. **(DO NOT INSERT ANY OBJECT INTO THE PORT, AS THIS WILL PERMANENTLY DAMAGE THE SENSOR).**
4. Place your finger over the port and shake for a few moments.
5. Remove your finger and shake out the alcohol.
6. Repeat steps (3) – (5) at least three times.
7. Allow the sensor to air dry over at least an hour, or pull a vacuum on the sensor to dry it more quickly.
8. Replace the battery and turn on the gauge. The Oil Indicator should be off. If it is still on, repeat the cleaning procedure.
9. If full accuracy is desired, perform a calibration cycle as detailed in the Calibration section below.

**NOTE:** It is important to remove all alcohol vapors from the sensor, either through air-drying or via vacuum. Any remaining vapors will cause an incorrect vacuum reading.

## Calibration Test

The *BluVac+ LTE* should rarely require recalibration, though it may be necessary to know that your gauge is calibrated properly for full accuracy. The Calibration Test mode assures you that the *BluVac+ LTE* is calibrated to factory specifications. Test the calibration as follows:

1. Turn the *BluVac+ LTE* power off.
2. **Important:** Expose the *BluVac+ LTE* to atmospheric pressure.
3. Press and hold (do not release) the  key for about 5 seconds.
4. The display will show **CAL Good** if the instrument is calibrated properly.
5. The display will show **CAL 5000** if the instrument requires calibration. Please see the Calibration section below.

## Calibration

If the Calibration Test indicates recalibration is required, the gauge may be recalibrated. Unlike any other vacuum gauge, the *BluVac+ LTE* can be easily recalibrated to factory specifications without any special equipment, with the following procedure:

1. For best results, clean the sensor with alcohol prior to calibration. Ensure the sensor is completely dry before proceeding.
2. Turn the *BluVac+ LTE* power off. If necessary, install a fully charged battery into the gauge.
3. Place the dust cap over the vacuum fitting.
4. Hold  while pressing . As soon as the power turns on, release  and  and then press  quickly at least three times. The **CAL** indicator should illuminate, and **Cal** should show on the Main Numeric Display. If not, turn the power off again and repeat.
5. Place the *BluVac+ LTE* in a clear Ziploc (resealable zipper storage) bag, press out any extra air, and seal.
6. Place the bagged *BluVac+ LTE* into a freezer with a temperature of less than  $-5^{\circ}\text{C}$  ( $23^{\circ}\text{F}$ ).
7. Allow the *BluVac+ LTE* to cool to below  $-2^{\circ}\text{C}$  ( $28.4^{\circ}\text{F}$ ). At this point, the alarm will sound and the display will change to **Hot**.
8. Remove from freezer and press any key to silence the alarm.
9. Place the *BluVac+ LTE* undisturbed in an area with a room temperature of at least  $23^{\circ}\text{C}$  ( $73.4^{\circ}\text{F}$ ) but no greater than  $30^{\circ}\text{C}$  ( $86^{\circ}\text{F}$ ).
10. Allow the *BluVac+ LTE* to warm to  $20^{\circ}\text{C}$  ( $68^{\circ}\text{F}$ ). At this point, the alarm will sound, and **H I-P** show on the display.
11. Press any key to silence the alarm. The *BluVac+ LTE* is now calibrated to factory specifications.

**NOTE:** For accurate calibration, it is necessary to allow the *BluVac+ LTE* to warm slowly. Attempting to accelerate the warming by using a heat source will not provide satisfactory results. During the cooling/warming process, the temperature will be indicated on the Alternate Numeric Display in degrees Celsius. The calibration process may be canceled at any time by turning off the *BluVac+ LTE*. The previous calibration will be unchanged.

## Low Temperature Operation

The *BluVac+ LTE* can operate accurately at temperatures as low as  $10^{\circ}\text{F}$  ( $-12^{\circ}\text{C}$ ). While operating below freezing ( $32^{\circ}\text{F}/0^{\circ}\text{C}$ ), the display update rate will slow from 3.5 readings every second to one reading every two seconds.

A standard alkaline battery may not provide acceptable battery life at temperatures below  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ ). For low temperature operation, a 9V Lithium battery is recommended.

## Troubleshooting

Under certain conditions, the display may read *-0 IL -* or *Error*. Please use the table below to determine and fix the problem:

| Display        | Mode             | Possible Problem                   | Solution                                                                             |
|----------------|------------------|------------------------------------|--------------------------------------------------------------------------------------|
| <i>-0 IL -</i> | Normal Operation | Sensor Contaminated                | Clean the Vacuum Sensor                                                              |
|                |                  | Ambient Temperature too Low        | Turn the BluVac+ off, warm the vacuum port with your hand, turn the BluVac+ back on. |
|                | Calibration      | Sensor Contaminated                | Clean the Vacuum Sensor and Restart Calibration                                      |
| <i>Error</i>   | Normal Operation | Sensor Failure                     | Contact Customer Service                                                             |
|                | Calibration      | Gauged Warmed too Quickly          | Restart Calibration. Allow the Gauge to Warm Slowly                                  |
|                |                  | Gauge Disturbed During Calibration | Restart Calibration. Leave the Gauge Undisturbed During Warming Phase.               |

## **Frequently Asked Questions**

**Q.** How often must I calibrate the BluVac+ LTE?

**A.** Calibration of the BluVac+ LTE is only necessary when the Calibration Test indicates that calibration is required. Regardless, frequent cleaning and/or calibration will not adversely affect the long-term reliability of the instrument. For best results, ensure the sensor is clean and dry, and the dust cap is in place, prior to calibration.

**Q.** Can I use the BluVac+ LTE to check the proper operation of my vacuum pump?

**A.** Yes. Attach the BluVac+ directly to the pump with a short hose or coupler. Turn the pump on, open the blank-off valve, and close the ballast. A good pump with clean and dry oil will typically pull very quickly to less than 100 microns (generally around 25 microns for a two-stage pump). Always close the blank-off valve and/or disconnect the BluVac+ prior to turning off the pump so as to avoid oil contamination of the sensor.

**Q.** The BluVac+ LTE does not indicate acceptably low pressure when I test my pump.

**A.** Ensure the pump oil is clean and dry (it should be completely clear when viewed through the pump's sight glass). Replace the oil. Ensure the pump ballast is completely closed and the blank-off valve is completely open, and all fittings are tight and seals are not damaged. If low pressure is still not achieved, the pump may be damaged or worn.

**Q.** I've attached the BluVac+ LTE directly to my pump with a short hose or coupler. As soon as I blank off the pump, the indicated pressure rises rapidly. Is sensor leaking?

**A.** No. There will always be molecular-sized leaks, outgassing, and/or permeation in any hose or fitting, and the pump's blank-off valve may not be entirely gas tight. The indicated pressure will rise due to the small internal volume of the hose or coupler.

**Q.** What is the recommended method for attaching the BluVac+ LTE for evacuation service?

**A.** Ideally, the BluVac+ LTE should be as close to the internals of the system under evacuation, and as far from the vacuum pump as possible. Attaching the BluVac+ LTE to the auxiliary port of a vacuum-rated core removal tool (CRT) connected directly to a service port is the best method. The ball-valve of the CRT can be closed to completely isolate the system from the pump and hoses, thereby allowing for an accurate rise-time test at the completion of evacuation. Additionally, removing the Schrader core(s) via the CRT and using large diameter hoses will greatly speed the evacuation process.

**Q.** I accidentally exposed the BluVac+ LTE to high-pressure refrigerant. Did I damage the BluVac+ LTE?

**A.** No. The BluVac+ LTE sensor is rated to 500 PSI overpressure, and can be directly exposed to gas/liquid refrigerant. At worst, the sensor may be exposed to oil, in which case the oil indicator will activate and cleaning/calibration may be required.

**Q.** I removed the BluVac+ LTE from the system under vacuum, but the indicated pressure rises slowly and/or the gauge does not return to Hi-P. Is the BluVac+ LTE damaged?

**A.** No. The slow rise in pressure is due to residual refrigerant gas captured in the sensor. Gently blowing air into the sensor to remove the residual gas will effect an immediate rise to Hi-P.

**Q.** My BluVac+ LTE reads a different pressure than my other vacuum gauge from another manufacture. Which gauge is correct?

**A.** Unlike all other micron gauges, the accuracy of the BluVac+ LTE is independent of temperature and pressure. Therefore, you can be confident that the BluVac+ LTE's reading is correct. Other gauges are calibrated at a specific temperature and pressure (i.e. 500 microns and 77°F (25°C)). The accuracy of those gauges is necessarily derated when operated at pressures and temperatures different than the calibration values.

**Q.** I am still having problems using the BluVac+ LTE and/or understanding the readings it is giving me. What should I do?

**A.** Please, contact us! Use our website at [www.accutools.com](http://www.accutools.com) or call us at (954) 227-0781 between 9:00AM and 5:30PM EST. We will be happy to help.

## **Warranty and Repair**

### **1 Year Limited Warranty**

Core Enterprises, Inc. warrants that this AccuTools® product conforms to Core Enterprises, Inc. published specifications and will be free from defects in material and workmanship. The duration is for a period of one year from the date of purchase. Core Enterprises, Inc., at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. This is your sole warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. Core Enterprises, Inc. dealers, service centers, or retail stores selling Core Enterprises, Inc. products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

This warranty does not cover batteries or any other normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, damage caused by use of the product for purposes other than those for which was designed, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than Core Enterprises, Inc. or an authorized Core Enterprises, Inc. service center. Further, the warranty does not cover: Acts of God, such as fire, flood, lightning, hurricanes and tornadoes.

**THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, CONDITIONS OR REPRESENTATIONS, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE**

Core Enterprises, Inc. shall not be liable for any incidental or consequential damages caused by the breach of any express, implied or statutory warranty or condition.

Except to the extent prohibited by applicable law, any implied warranty or condition of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty.

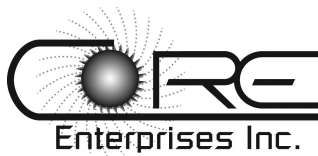
Core Enterprises, Inc. shall not be liable for any damages of any kind resulting from the purchase, use or misuse of, or inability to use the product including incidental, special, consequential or similar damages or loss of profits, or for any breach of contract, fundamental or otherwise, or for any claim brought against purchaser by any other party.

Some states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or jurisdiction to jurisdiction.

### **How to Obtain Warranty and Repair Service**

To obtain warranty or repair service, please call (954) 227 0781 to obtain a RMA number. For warranty service, a legible copy of the original receipt must be sent along with the RMA Form. Any package received without this RMA number will be refused. The returned product must be properly packaged and insured against shipping damage. Any shipping damage resulting from improper packaging shall be the responsibility of the Purchaser. The repaired or replaced product will be returned to Purchaser, freight prepaid via UPS ground only. Repaired or replaced units carry an additional 90 days warranty.



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