

The Acravac™ is a digital gauge designed to accurately measure vacuum levels during evacuation of HVAC/R systems from atmosphere down to 1 micron (0.01 mbar, 1 Pa) using a "Piran" sensor, the most accurate vacuum sensor in its class.

Operating Instructions:

1. Remove the battery cover and install the 9 volt battery. An indicator shows

when the battery needs to be replaced.

2. Connect a dedicated or new charging hose to the Acravac Plus fitting.

2a. A previously used hose may contain oil that could affect the sensor perfor-

mance.

2b. Normal refrigeration hoses outgas (leak) which may make it difficult to

measure below 250 microns. We suggest using a metal braided hose for better

accuracy.

2c. We recommend using a hose no longer than 3 feet. A longer hose may make

the gauge unable to read lower vacuum levels due to excessive outgassing.

3. Connect the other end of the hose directly to either the high or low side of the

system for most accurate readings. You can also connect the hose to one of the

ports on the vacuum pump itself. To connect the gauge in-line with a manifold

set or the vacuum pump, you will need a separate 1/4" male by 1/4" male by 1/4" female T fitting.

PRESSURES GREATER THAN 150 PSI CAN DAMAGE THE SENSOR. BE

SURE THE SYSTEM'S REFRIGERANT HAS BEEN RECOVERED BEFORE

CONNECTING THE ACRAVAC PLUS.

4. Turn the Acravac Plus on by pressing the On/Off button. Readings greater

than 1500 are displayed as 3 digits followed by the X1000 indicator. For ex-

ample, a reading of 100,000 is displayed as 100 X1000.

5. The Acravac Plus automatically turns off after 1 hour when the vacuum

reading is above 30,000 microns. The last reading before auto shutdown and

MEMORY are displayed for 5 seconds when the unit is turned back on. Auto

shut-down is disabled when the vacuum level is below 30,000 microns. How-

ever, you can turn the Acravac Plus off or on at any pressure.

OPERATING MANUAL



Acravac Plus Vacuum Gauge



Specifications

Usage	Indoor or Outdoor
Pressure range	atm. to 1 micron
Accuracy	<2000 microns 5%
	>2000 microns 10%
Altitude	2000 m
Pollution degree	2
Overvoltage category	2
Battery	9 volt alkaline
Battery life	45 hours
Humidity	95% RH NC Max.
Operating temperature	0°C to 50°C
Weight	7.25 oz
Storage temperature	-10°C to +60°C

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The Acravac Plus can display vacuum in units of microns, mbar or Pascal. To change units, press and hold the power button for 3 seconds during power-up and the indicator for the active units flashes. Briefly press the power button again to select the desired units. Press and hold the power button for 1 second to save the setting.

Quick Calibration
 The Acravac Plus has a quick calibration feature to allow for equalisation to different atmospheric pressures. Press CAL to activate. CAL flashes on the display and the reading stabilises at 760 x 1000. The gauge will maintain this reference point until a new one is set. Note: Quick calibration is disabled at vacuum levels below 100,000 microns.

Changing the Filter
 The Acravac Plus is equipped with a special filter to protect the vacuum sensor from oil and other contaminants. To change the filter, remove the setscrew in the unit's fitting. See Figure 1. Use an 11/16" wrench to stabilize the top portion of the fitting. Then twist off the lower portion of the fitting using a 1/2" wrench. Use needle-nose pliers or a similar item to gently pull out the used filter. Do not attempt to clean or re-use filters. Insert a new filter with the thicker portion of the o-ring facing away from the gauge's body. Re-attach the refrigerant flare. Tighten the fitting with the wrenches and replace the set screw to ensure vacuum integrity.

DECLARATION OF CONFORMITY

This is to certify that this equipment meets the essential safety requirements of the European Union and is placed on the market accordingly. It has been constructed in accordance with good engineering practice in safety matters in force in the Community and does not endanger the safety or persons, domestic animals or property when properly installed and maintained and used in applications for which it was made.

Equipment Description
 Acravac Plus
 73/23/EEC as amended by 93/68/EEC
 89/336/EEC as amended by 93/68/EEC
 2002/95/EC (ROHS)
 EN61010-1: 1993
 EN61326:2000-11, EMC CIA
 Immunity Criteria B
 CE Implementation
 January 2002

