

# PUMP PLUS 2000

## DUAL SYSTEM BATTERY CHARGER & POWER SUPPLY



MODEL # 091-9-2000

The Pump Plus 2000 charger independently senses the two sets of batteries in the vehicle and recharges each one exactly as much as required. When the batteries are fully charged, all charging stops. The state of charge of the two sets of batteries is indicated on a remotely located bar graph display whenever power is applied to the vehicle. The Battery Saver contained in the Pump Plus 2000 charger is a 3 Amp power supply with a relay to remove the accessory loads from the battery and connect them to the power supply when the charger is energized with A.C. power. This permits the charger to recharge the batteries without supplying the accessory load. A Selector Switch is provided on the charger to operate the compressor either as a D.C. compressor or as an A.C. compressor. In either switch position the compressor operates from the vehicle's battery. When "D.C." is selected, the compressor operates whenever the pressure switch senses low system pressure. This is useful when parking the vehicle away from the 120 volt input power. For those operators who wish to limit compressor operation to the times when the shoreline is connected to the vehicle, the Selector Switch should be placed in the "A.C." position. This will operate the compressor when the A.C. power is available, but shuts off the compressor when the shoreline is removed. In either switch position the compressor is operated by the vehicle's battery.

**KE KUSSMAUL ELECTRONICS**  
ENERGIZED AND READY, WHEN SECONDS COUNT

**15 AMPS FOR CHARGING VEHICLE BATTERIES**

**BUILT-IN 3 AMP BATTERY SAVER**

**AUTOMATICALLY CHARGES DUAL BANKS OF BATTERIES**

**REMOTE DUAL BAR GRAPH DISPLAY**

**DESIGNED SPECIFICALLY FOR VEHICLES WITH DUAL BATTERY SYSTEMS**

**RUGGED CONSTRUCTION FOR VEHICLE MOUNTING**

**3 YEAR WARRANTY**

### SPECIFICATIONS:

**Input:** 120 Vac, 50/60 Hz, 3.5 Amps Max

**Input Fuse:** 6 Amps, Fast Acting

**Output:** 12 Vdc, 15 Amps

**Battery Saver:** 12 Vdc, 3 Amps

**Output Fuse (Recommended):** 30 Amps

**Voltage Sense:** No Sense Lines Required

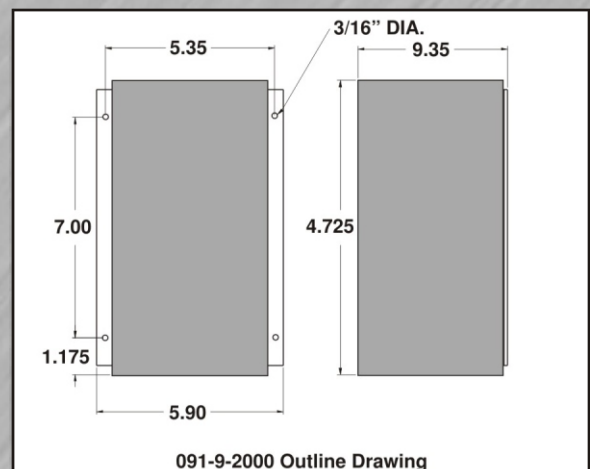
**Power Indicator:** Indicates Input Power Applied

**Battery Saver Overload Indicator:** Indicates Battery Saver Exceeded 3 Amps

**Charge Indicator:** Remote Dual Bar Graph Display

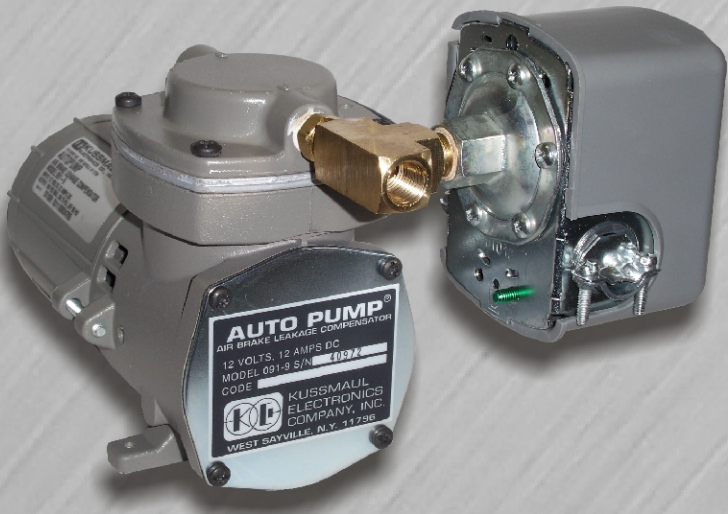
**Weight:** 17 lbs

**Warranty:** 3 Years



# AUTO PUMP® 12 VOLT

## AIR BRAKE LEAKAGE COMPENSATOR



MODEL # 091-9

The 12 Volt Auto Pump is a small air compressor designed to mount on vehicles with air brakes to maintain the air pressure in the air brake system while the vehicle is not in use. A pressure switch senses when the system pressure drops and starts the compressor which then runs until pressure is restored. All ball bearing construction, lubricated for life, assures reliable operation and requires no servicing.

### SPECIFICATIONS:

**Input:** 12 Vdc @ 12 Amps Max

**Output:** .30 SCFM @ 80 PSI  
.35 SCFM @ 60 PSI

**Motor Type:** Perm. Magnet .10 HP

**Pressure Switch:** Adjustable Set-Point, Factory set to 75 PSI Cut-In, 95 PSI Cut-Out

**Weight:** 7 lbs

**Warranty:** 1 Year



ENERGIZED AND READY, WHEN SECONDS COUNT

**100 PSI MAX**

**MAINTAINS AIR PRESSURE IN THE VEHICLE BRAKE SYSTEM**

**COMPLETELY AUTOMATIC OPERATION CONTROLLED BY INTEGRAL PRESSURE SWITCH**

**NO INTERFERENCE WITH OPERATION OF THE ENGINE MOUNTED AIR COMPRESSOR**

**SMALL SIZE, MOUNTS IN ANY DRY LOCATION**

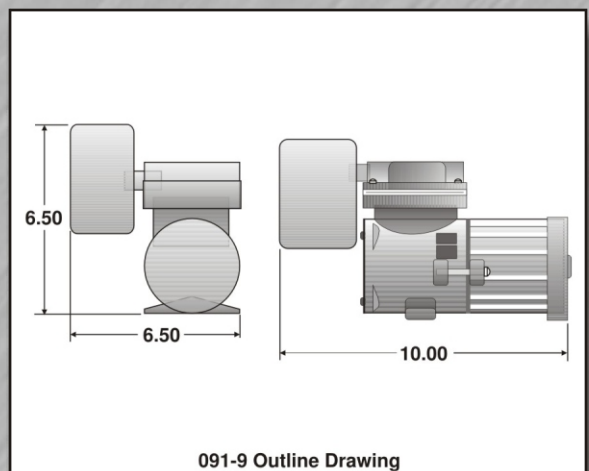
**1 YEAR WARRANTY**

### OPTIONAL ACCESSORY



Model 091-9H

This unit provides a soft mount for the Auto Pump 12 Volt. The mounting plate reduces vibration, and simplifies Auto Pump Installation.



091-9 Outline Drawing