

PUMP PLUS 1000

SINGLE SYSTEM BATTERY CHARGER & POWER SUPPLY



MODEL # 091-9-1000

The Pump Plus 1000 charger senses the batteries in the vehicle and recharges exactly as much as required. When the batteries are fully charged, all charging stops. The state of charge of the 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 1000 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 in D.C. mode or in A.C. mode. 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 110 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.

15 AMPS FOR CHARGING VEHICLE BATTERIES

BUILT-IN 3 AMP BATTERY SAVER

AUTOMATICALLY CHARGES BATTERY

REMOTE BAR GRAPH INDICATOR

DESIGNED SPECIFICALLY FOR VEHICLES WITH SINGLE BATTERY SYSTEMS

NO WATER BOIL OFF

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

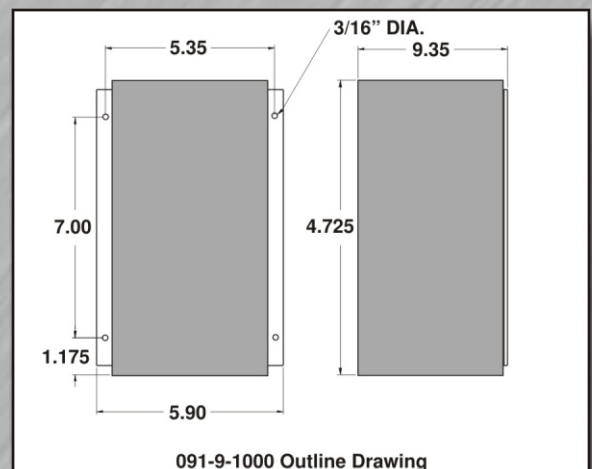
Power Indicator: Indicates Input Power Applied

Battery Saver Overload Indicator: Indicates Battery Saver Exceeded 3 Amps

Charge Indicator: Remote Bar Graph Display

Weight: 17 lbs

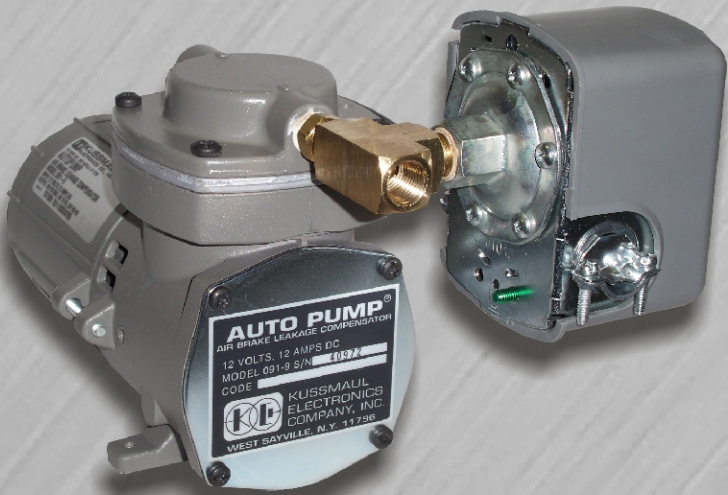
Warranty: 3 Years



KE KUSSMAUL ELECTRONICS
ENERGIZED AND READY, WHEN SECONDS COUNT

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

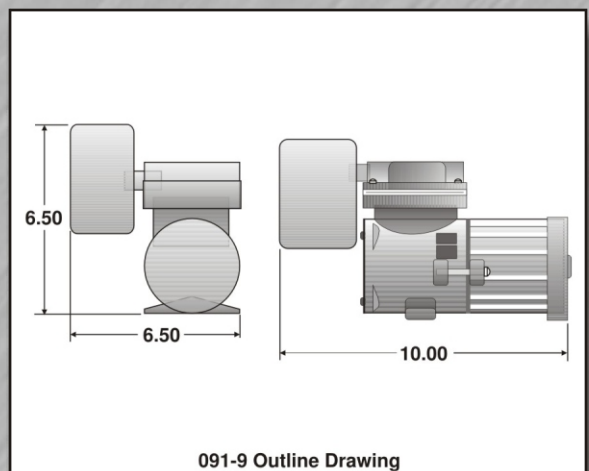
1 YEAR WARRANTY

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