



RV Products Division

OPERATION AND MAINTENANCE

INSTRUCTIONS FOR

46515 SERIES

TWO TON PACKAGED HEAT PUMP

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I. SPECIFICATIONS

46515-811

MODEL NO. SERIAL NO.
FOR OUTDOOR USE TOP

ELEC. RATINGS: 115 VAC 60 Hz 1 PHASE

| | | |
|------------|------------------------------|------------|
| CIRCUIT #1 | COMPRESSOR | CIRCUIT #2 |
| 10.4 RLA | 1450-407 | RLA 10.4 |
| 63.0 LRA | MOTOR THERMALLY PROTECTED | LRA 63.0 |


| | | | |
|---------|------------------------|----------|---------|
| 3.4 FLA | I.D. BLOWER MOTOR DATA | H.P. 1/3 | FLA N/A |
| 2.8 FLA | O.D. BLOWER MOTOR DATA | H.P. 1/3 | FLA 3.7 |

| | | |
|---|--|-------------|
| 19.2 AMP | MIN. CIRCUIT AMPERAGE | AMP 16.7 |
| 20 AMP | MAXIMUM OVERCURRENT PROTECTIVE DEVICE | AMP 20 |
| 32.5 OZS. | R-410A CHARGE WEIGHT | OZS. 32.5 |
| MINIMUM EXTERNAL STATIC PRESSURE .43 IN. W.C. | | |
| #12 0'-25' | MINIMUM SUPPLY CONDUCTOR GAUGE | 0'-25' #12 |
| #10 25'-40' | (COPPER) | 25'-40' #10 |
| #8 40'-63' | UTILISER DES FILS D'ALIMENTATION | 40'-63' #8 |
| | EN CUIVRE | |

WARNING: RISK OF ELECTRIC SHOCK!!! CAN CAUSE INJURY OR DEATH. DISCONNECT ALL REMOTE ELECTRIC POWER BEFORE SERVICING.

AVERTISSEMENT: RISQUE DE CHOCS ELECTRIQUES. PEUT CAUSER DES BLESSURES ET MEME ENTRAINER LA MORT. COUPER LES SOURCES D'ALIMENTATION A DISTANCE AVANT LE DEPANNAGE.

DESIGN PRESSURES
HIGH SIDE 450 PSIG / LOW SIDE 240 PSIG


C
US

LISTED

| | | |
|-----------------------|-------------------------|-----------|
| RV PRODUCTS | ROOM AIR CONDITIONER | 5K09 |
| DIV. OF AIRXCEL INC., | WICHITA, KS | 46515-180 |

II. GENERAL INFORMATION

This packaged heat pump mounts below the floor of the vehicle. The innovative design makes it possible to maintain a smooth, free-flowing roof line for the vehicle. It also relocates all heat pump noise and condensate drainage off the roof to below the floor of the vehicle.

This heat pump contains a dual compressor system with each compressor connected to a separate refrigeration circuit. It combines the capacity of two roof mounted units into one highly efficient and compact package.

A. Air Conditioner

This heat pump operates a two stage system in cooling, running a single compressor when the air conditioning requirement is low, or with two compressors when maximum cooling is required.

The first compressor and refrigeration circuit is referred to as "1st Stage". The second compressor and refrigeration circuit is referred to as "2nd Stage". First and second stage will operate as indicated below:

1st Stage (the first compressor and refrigeration circuit) will operate when:

- 1) The thermostat is demanding cooling,
- 2) The vehicle is being powered by either shore line or the on-board generator.

2nd Stage (the second compressor and refrigeration circuit) will operate when:

- 1) The thermostat senses room temperature is 2 degrees higher than setpoint,
- 2) The vehicle has enough power.

B. Heat Pump

Heat operation always energizes both refrigeration circuits with a 30 second delay between compressor 1 start-up and compressor 2 start-up, however; only refrigeration circuit #1 operates if power is not available for circuit #2.

Thermostat operation is described in operation instructions packed with the thermostat.

The 46515 series heat pump uses a factory installed High Pressure Switch Safety Circuit. In the event of an abnormal condition (failure of fan motor, dirty condenser coil, dirty filters), the high pressure switch will prevent the compressor from continuing to run. Once the high pressure switch has tripped, this safety circuit will "Lock Out" the compressor and outdoor fan preventing them from trying to restart or run. This is a manual reset pressure switch, access shall be limited to Qualified Technicians. The manual reset push button for the pressure switch is accessed in the units electrical box and 115 volt power shall be turned off while resetting switch.

III. MAINTENANCE

One of the biggest advantages of owning a Coleman-Mach heat pump is that the maintenance needed to keep the unit in good care is minimal.

In fact, the only maintenance that must be taken care of on a regular basis is the cleaning or replacement of the units return air filters.

The manufacturer of your vehicle determines the number, size and location of the return air filters. Be sure to contact your dealer should you have any questions concerning the number of filters used and their location.

The return air filters of this system will accumulate dust and dirt more quickly than ceiling mounted systems. We recommend that the filters be checked on a weekly basis.

If the filters are not cleaned or replaced at regular intervals, they may become partially clogged with lint and dirt. A clogged filter will product a loss of air volume and may eventually cause equipment damage.

Do not operate the heat pump without return air filters. Operating the system without filters allows the lint and dirt that is normally stopped by the filter to accumulate on the cooling coil of the heat pump. This also will lead to a loss of air volume, possible equipment damage and an expensive cleaning process.

Periodically (once or twice a season), inspect the outdoor coil and brush off any accumulated residue with a soft bristled brush.

IV. WARRANTY

Let's face it. Sometimes even the best products may need service. To obtain warranty service on your Coleman-Mach air conditioner, please contact your selling dealer, or you may access our web site on the Internet at www.rvcomfort.com for answers to the most frequently asked questions and service center locations.

Airxcel, Inc. support help may be accessed by e-mail at RVPSupport@Airxcel.com.

All written correspondence should be directed to:

Airxcel, Inc.
RV Products Division
P.O. Box 4020
Wichita, KS 67204

IMPORTANT

1. Carefully read your limited two year product warranty which is packed with the product.
2. An optional three year extended parts only contract is available at an additional cost of \$89.95. To obtain this optional three year parts contract, fill out the application card stapled to the front of this envelope. Please mail the card and a check or money order to the address above. Applications must be made **within ninety (90) days** of the original purchase.
3. Inquiries about your Coleman-Mach air conditioner must include the model and serial numbers and the date of purchase. The model and serial numbers can be found on the unit rating plate.

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