

**LIMITED THREE YEAR WARRANTY FOR  
USES® SHUNT EFFICIENCY SYSTEM**

The USES® Shunt Efficiency System has a limited three year warranty to the original end user by USES MFG INC. against defects in materials and workmanship when purchased from an authorized dealer. The limited warranty will cover the internal operating parts of a new unit against operational failure. During the limited warranty period, USES MFG INC. will repair or, at their option, replace a defective product at no charge. Any repairs, alterations, additions, or adjustments by others, unless authorized by USES MFG INC., will terminate all obligations of USES MFG INC. under this limited warranty. Removal of any Product from the Destination Country specified below shall void this limited warranty with respect to the Product so removed. This limited warranty does not cover the cost of labor, materials, repairs or replacement resulting from acts of God, fire, water damage or any other cause beyond USES MFG INC.'s control. The limited warranty is null and void if the unit has not been installed by a licensed electrician to USES MFG INC.'s installation specifications. Any tampering with circuits or seals of the unit shall void the warranty. When returning the unit to the authorized dealer for USES MFG INC., the unit must be properly packaged to avoid any damage in transit. The package must be shipped with the delivery charges prepaid. The shipper is responsible for insuring the package for full replacement value. The shipper shall also prepay all costs to cover the return shipping and handling charges.

**EXCEPT FOR THE EXPRESS WARRANTY SET FORTH ABOVE, USES MFG INC. GRANTS NO OTHER WARRANTY, EXPRESS OR IMPLIED, BY STATUTE OR OTHERWISE, REGARDING THE PRODUCTS, THEIR FITNESS FOR ANY PURPOSE, THEIR QUALITY, THEIR MERCHANTABILITY, OR OTHERWISE. USES MFG INC.'S LIABILITY UNDER ANY LEGAL THEORY SHALL BE LIMITED TO A REFUND OF THE PURCHASE PRICE. IN NO EVENT SHALL USES MFG INC. BE LIABLE FOR THE COST OF PROCUREMENT OF SUBSTITUTE GOODS OR ANY INCIDENTAL SPECIAL, CONSEQUENTIAL DAMAGES ON ANY THEORY OF LIABILITY.**

Dealer Name: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

USES® Model: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Destination Country: \_\_\_\_\_

**USES MFG INC.**  
P.O. BOX 156, 152 OLD COLCHESTER ROAD  
QUAKER HILL, CT 06375 U.S.A.  
PHONE 203-443-USES (8737)

Keep for future reference  
Nontransferrable and Non-Prorated

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Dealer Name: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

USES® Model: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Destination Country: \_\_\_\_\_

Customer Name: \_\_\_\_\_

Address: \_\_\_\_\_ Telephone: \_\_\_\_\_

\_\_\_\_\_

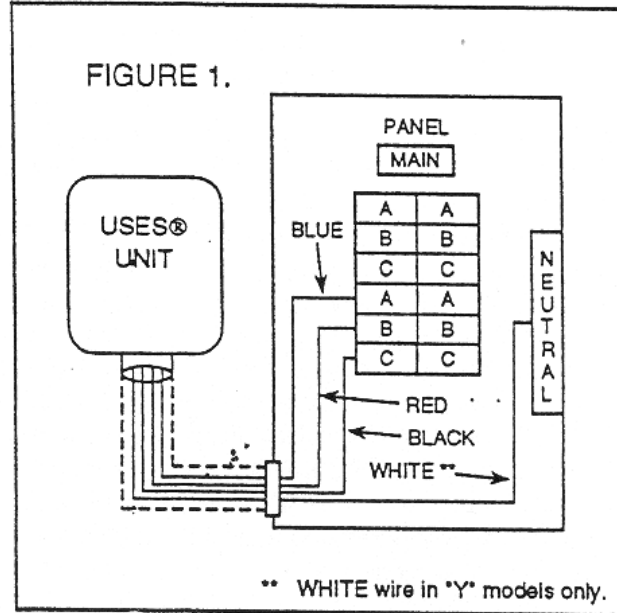
Mail to USES MFG INC.

MODELS: CMES-3Y CMES-3Y (480)  
 CMES-3D CMES-3D (480)

**PARTS REQUIRED:**

Parts to be supplied by the installer. Similar parts may be substituted. Additional parts may be required depending upon installation configuration.

1. Circuit breaker: 30 amp, 3 pole (SWD rated)
2. PVC pipe (size/quantity as required)
3. PVC T/A (size/quantity as required)
4. PVC LB (size/quantity as required)
5. Wire: use only #8 THHN single conductor



**CAUTION:** DEENERGIZE ALL ELECTRICAL POWER TO THE PANELS AND EQUIPMENT BEFORE COMMENCING INSTALLATION.

**CAUTION:** The point at which the USES® unit is connected to the electrical system must be on the line side of any controller for any motor or load.

**CAUTION:** Confirm all phase-to-phase and all phase-to-neutral voltages match those listed in Table 1 for the model being installed before commencing installation.

**CAUTION:** USES® unit must be installed by a licensed electrician. Installer is responsible to ensure all aspects of installation comply with the NEC and local electrical codes.

**INSTALLATION:**

1. Install the circuit breaker in the electrical panel.\*
2. Mount the USES® unit. The total wiring length from unit to the circuit breaker must be 10' or less.
3. Run conductors (and neutral wire, if present) into the panel.
4. Connect neutral wire (if present) to neutral bar in the panel.
5. Connect conductor wires to the circuit breaker.

USES® MODEL	Ph.-Ph. VOLTAGE	Ph.-N VOLTAGE	USES® CURRENT
CMES-3Y	208	120	8.1
CMES-3D	208	N/A	14.1
CMES-3Y (480)	480	277	17.4
CMES-3D (480)	480	N/A	24.7

**OPERATIONAL CHECKS:**

1. When ready to energize the USES® unit, shut the circuit breaker
2. Observe the lights on the side of the USES® unit. All should be lit and equally bright. If not, deenergize the USES® unit, verify wiring is correct and that proper phase-to-phase and phase-to-neutral voltages exist. Contact your USES dealer if the voltages are correct but all lights were not lit and equally bright.
3. Confirm that the current on each conductor from the USES® unit to the circuit breaker is as listed in Table 1 ( $\pm 20\%$ ) for the model being installed.
4. Periodically verify indicator lights are lit and equally bright. Contact your USES dealer if they are not.

If breaker space is not available in an electrical panel or if the USES® unit is being installed local to a load, a circuit breaker disconnect may be used provided it meets NEC requirements. The point at which the USES® unit is connected to the electrical system must be on the line side of any controller for any motor or load.