

COMBUSTION AIR CONTROL

CAC-24

ITEMS INCLUDED IN KIT:

- 1- Junction box with mounted fan proving switch and relay base
- 1- 24 VAC relay
- 1- Conduit connector
- 1- 10 Ft. length of 1/4" plastic tubing
- 1- Plastic Tee

This kit is designed to control more than one appliance on a system using the Field Controls CAS-4 Combustion Air System with a chimney vented oil fired system. The controls in the CAS-4 will operate only one appliance, therefore a CAC-24 is required for each additional appliance to be added to the same CAS-4 unit. One CAS-4 unit can handle, at max, a total combined firing rate input of up to 500,000 BTU/HR. Refer to the instructions included with the CAS-4 for more details and other restrictions.

READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE PROCEEDING WITH THE INSTALLATION.

This device **MUST** be installed by a qualified agency in accordance with the manufacturer's installation instructions. The definition of a qualified agency is: any individual, firm, corporation or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all the precautions required, and has complied with all the requirements of the authority having jurisdiction.

Please retain these instructions after installation.

Installed By: _____ Phone: _____ Installation Date: _____



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MOUNTING JUNCTION BOX

The junction box may be mounted anywhere that is convenient for routing the wiring and tubing. Mount the CAC-24 to a wall or floor joist using the four dimpled locations on the base of the box (See Figure 1).

Note: The unit must be mounted so the draft proving switch is vertical as shown in Figure 1. The CAC-24 should be placed close enough to the CAS unit to route the provided 10 foot long plastic tubing from the draft proving switch to the exposed tubing on the CAS. If mounting further away, the installer must provide any necessary fittings and extra tubing.

WIRING

Wire the controls in accordance with the National Electrical Code, manufacturer's recommendations and/or applicable local codes. **UNIT MUST BE GROUNDED.** Check ground circuit to make certain that the unit has been properly grounded. The wiring should be protected by an overcurrent circuit device rated at 15 amperes. **CAUTION** must be taken to ensure that the wiring does not come into contact with any heat source. All line voltage circuits **MUST** be wired in accordance with the National Electrical Code for Class 1 wiring or equivalent methods.

1. Remove one knockout from the junction box on the fan proving switch side. Install line voltage power supply wires to the CAS unit as shown in Figure 1.
2. Remove one knockout from the side of the junction box opposite the fan proving switch. Run line voltage wiring to the appliance controls as shown in Figure 1. Refer to the appropriate gas system configuration diagram for your specific appliance.
3. Insert the 24 VAC relay into the base on the CAC-24 and secure with the retaining clip.
4. Install the junction cover and secure with the 4 provided sheet metal screws.

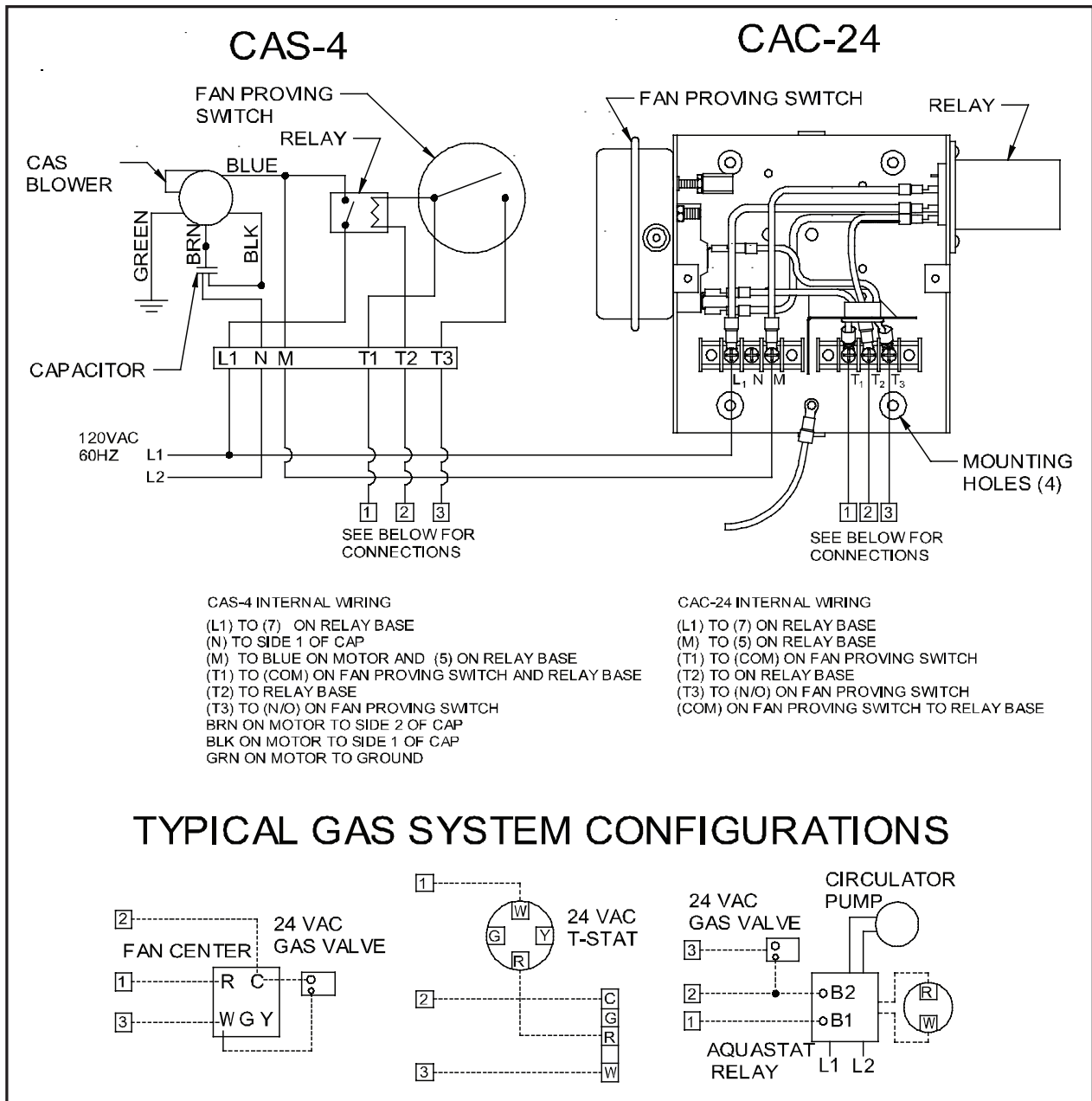


Figure 1

FAN PROVING SWITCH AIR SENSING TUBE INSTALLATION

1. Attach the provided plastic tubing to the fan proving switch on the CAC-24 using the plastic compression fitting on the switch.
2. Cut the exposed tubing on the CAS-4 as shown in Figure 2. Install the provided plastic Tee and connect the tubing from the CAC-24 to the Tee.

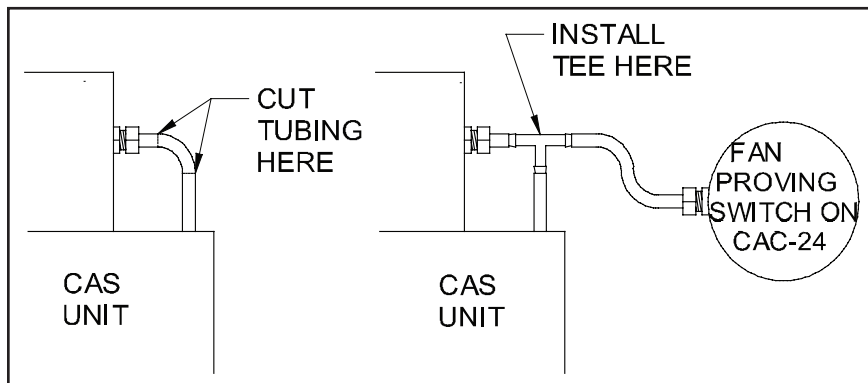


Figure 2

LIMITED WARRANTY

Field Controls, LLC ("Company") warrants that its products shall be free from defects in material and workmanship under normal use for the limited period indicated, **from the date of manufacture, subject to the provisions 1-8 below.**

Eighteen (18) months

All Field Controls Products (except for those listed below as 5 years or 90 days).

Five (5) years

Field Controls Direct Vent Systems (FDVS), Field Oil Vent Kits (FOVP), and ComboVents (CV).

Field Controls warrants that the products listed below shall be free from defects in material and workmanship under normal use for the limited period indicated, **from the date of purchase by the consumer, subject to the provisions 1-8 below.**

Ninety (90) days

UV lamps/bulbs

Provisions:

1. During the limited warranty period, Company, or its authorized service representative, will repair or replace, at Company's option, without charge, a defective Product. Product that is repaired may be repaired with new or refurbished replacement parts. Product that is replaced may be replaced with a new or refurbished product of the same or similar design. Company will return repaired or replacement Product to customer in working condition. Labor charges are not covered as part of the limited warranty.
2. With regard to UV lamps/bulbs, customer shall be required to include a "valid proof of purchase" (sales receipt) identifying the Product purchased (Product model or accurate date code information) and the date the Product(s) was purchased.
3. Product whose warranty/quality stickers, Product serial number plates or electronic serial numbers have been removed, altered or rendered illegible shall not be covered under the limited warranty.
4. Defective Product must be returned to Company, postage prepaid.
5. IN NO EVENT SHALL COMPANY BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR SIMILAR DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS OR REVENUE, INABILITY TO USE PRODUCT, OR OTHER ASSOCIATED EQUIPMENT, THE COST OF SUBSTITUTE EQUIPMENT, AND CLAIMS BY THIRD PARTIES) RESULTING FROM THE USE OF PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
6. THIS WARRANTY AND REMEDIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL, WRITTEN, EXPRESS, STATUTORY OR IMPLIED. TO THE EXTENT PERMITTED BY LAW, COMPANY DISCLAIMS ALL IMPLIED AND STATUTORY WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
7. Company makes no warranty of any kind in regard to other manufacturer's products distributed by Company. Company will pass on all warranties made by the manufacturer and where possible, will expedite the claim on behalf of the customer, but ultimately, responsibility for disposition of the warranty claim lies with the manufacturer.
8. Product that has been subjected to misuse, accident, shipping or other physical damage, improper installation or application, abnormal operation or handling, neglect, fire, water or other liquid intrusion are not covered by the warranty.



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