

## Part Number P707-EDF2

**SAFETY CONSIDERATIONS**

Installing, starting up, and servicing equipment can be hazardous due to system pressures, electrical components and equipment location (roofs, elevated structures, etc.). Only trained, qualified installers and service mechanics should install, start up, and service this equipment.

When working on the equipment, observe precautions in the literature and on tags, stickers, and labels attached to the equipment.

**▲ WARNING**

Before installation, always check to be sure main power to systems are OFF. Electrical shock can cause personal injury or death.

**GENERAL**

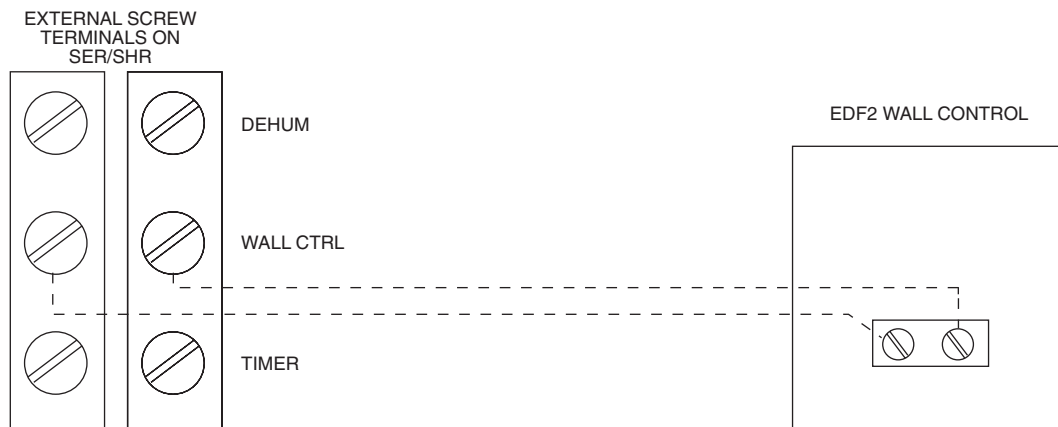
The Intellitek EDF2 multi-function wall control is used with Totaline SER series energy recovery ventilators and SHR series heat recovery ventilators. The EDF2 wall control has an electronic relative humidity display, dehumidifier function, override timer control, mode control, filter indicator, and an on/off button for the ventilator. High humidity is a major cause of structure damage and IAQ problems such as mold and mildew.

**INSTALLATION**

NOTE: For technical assistance call 1-800-747-1762.

To install the Intellitek wall control, perform the following procedure:

1. Determine the mounting location for the wall control. Location should be in an easily accessible area. Do not locate where humidity sensor could be affected by direct humidity sources.
2. All controls are low voltage. Use 18 to 24 gage field-provided wire. Connect wire to WALL CTRL terminals on ventilator. See Fig. 1.
3. Run wire to mounting location. Do not run control wire with power wiring. Interference from power wiring can cause changes to control signal.
4. Run wire out of hole in wall at mounting location.
5. Remove cover from wall control backplate. Four screws and plastic wall plugs are provided for mounting to the wall. Mount backplate to wall with screws provided.
6. Connect wiring to terminals on back of wall control.
7. Snap front cover onto backplate.

**Fig. 1 — Wall Control Wiring**

## OPERATION

When the wall control is installed, the rocker switch located on the right-hand side of the ventilator is automatically deactivated. This gives the user complete control of the ventilator from the wall control. See Fig. 2.

**Power Button** — The Power button is used to turn the ventilator on and off. Press the button once to change from off to on or on to off.

**Modes Button** — The Modes button is used to change the mode of the ventilator. The modes are Continuous and Intermittent.

In Continuous mode, the outside air will be brought inside continuously and exchanged with stale indoor air.

In Intermittent mode, the ventilator can be overridden by the timer, air quality sensor, or other functions.

**Filter Light Reset and Mode Speed Button** — The Filter Light Reset button is used to reset the maintenance light and to view and set the ventilator fan speed during normal operation. Fan speed can be set to low, medium, or high speed operation.

To change the fan speed, press the Filter Light Reset button once. The mode fan speed will be displayed on the screen. The fan can be set to L (low), M (medium), or H (high). Press the Up Arrow button to change the fan speed setting. After a few seconds of inactivity, the screen will return to the indoor humidity display.

**Maintenance Light** — The Maintenance Light on the wall control will be lit when it is time to check the filters and core for cleaning (after 5000 hours of operation). After the filters have been replaced or cleaned and the core has been checked, push the Power button to restart the ventilator. The internal maintenance timer will be reset. The Filter Light Reset button will reset the Maintenance light.

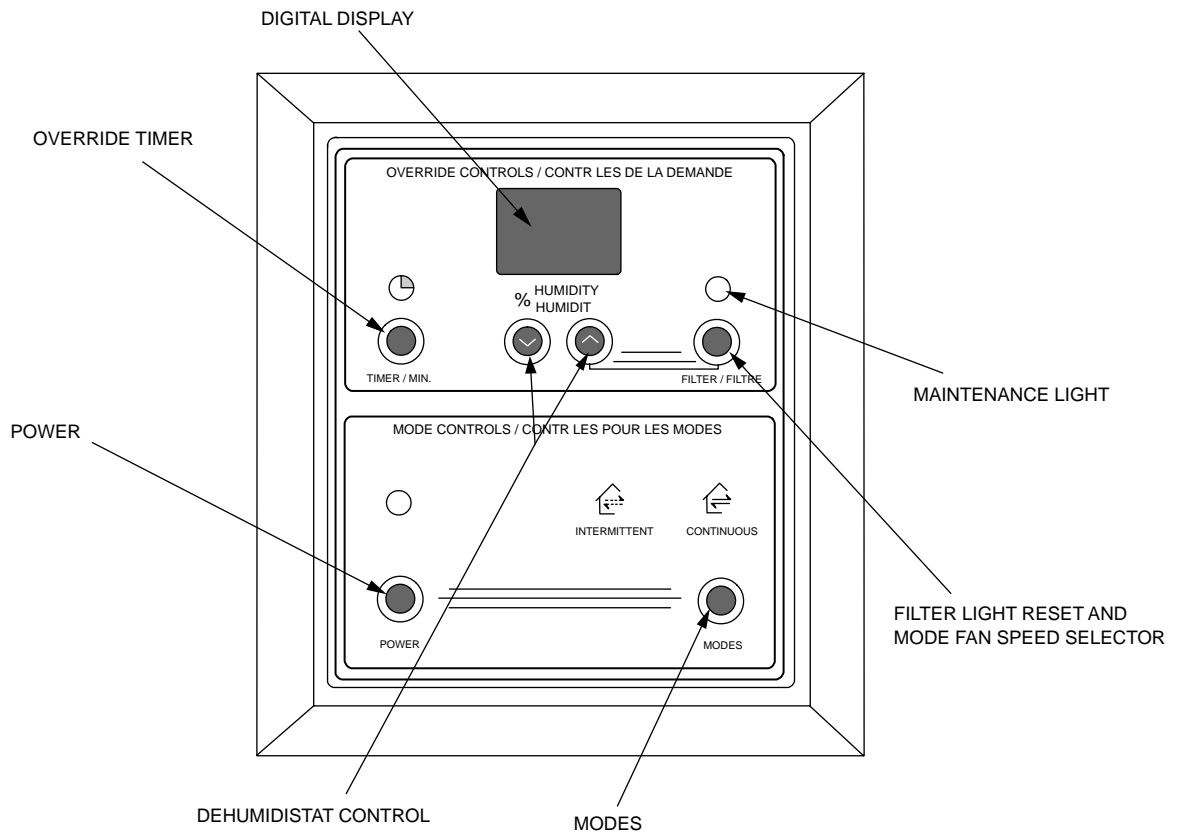
**Dehumidistat Control and Display** — Use the Up and Down Arrow buttons to change the setting of the humidistat. The humidistat should be set to the desired level. During normal operation, the display will show the indoor humidity level. The display will not read below 25% RH. When the indoor humidity level is exceeded, the ventilator will go into Override mode. Override mode will continue until relative humidity drops below the set point. The fan will run in high speed in Override mode.

It is not necessary to change the humidity setting every day. To avoid window condensation, monitor the average weekly outdoor temperature to find a comfortable level. Adjust the control when needed. Condensation will occur when the outdoor temperature is low and the indoor humidity is high.

**Override Timer Button** — The Override Timer is used to override the normal setting of the control for one 15-minute time period. When the Override Timer button is pressed, the ventilator will provide high speed ventilation for 15 minutes.

**Operation Example** — To run the unit continuously at low speed and have the dehumidifier override in high speed when the indoor humidity exceeds 45% RH, set the wall control as follows.

1. Make sure the control is on. The light above the power button should be lit.
2. Press the Modes button until the Continuous mode indicator is lit.
3. Press the Filter button once. Press the Up Arrow set point button until L (low) is shown on the display screen. The control is now set to run in continuous mode on low fan speed.
4. To set the dehumidistat, press the Up or Down set point buttons until 45% is shown on the display.
5. The control is now set to override normal operation when the indoor humidity exceeds 45%. The override period will last until the indoor humidity drops below 45% RH. The fan will run on high speed.



**Fig. 2 — Wall Control Details**

## LIMITED TWO-YEAR WARRANTY

**TWO-YEAR WARRANTY** — This CARRIER CORPORATION product is warranted to be free from defects in material and workmanship under normal use and maintenance for a period of two years from the date of original installation. A new or remanufactured part to replace the defective part will be provided without charge for the part itself, through a qualified servicing CARRIER CORPORATION dealer or service, PROVIDED the defective part is returned to our distributor. The replacement part assumes the unused portion of the warranty.

**THIS WARRANTY DOES NOT INCLUDE ANY ADDITIONAL LABOR ALLOWANCE OR OTHER COSTS** incurred for diagnosis, repairing, removing, installing, shipping, servicing, or handling of either defective parts or replacement parts. SUCH COSTS MAY BE COVERED BY a separate warranty provided by the installer.

**LIMITATIONS OF WARRANTIES** — ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

### CARRIER WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual including replacement of filters or bulbs.
2. Damage or repairs required as a consequence of faulty installation or application by others.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operations.
5. Damage as a result of floods, winds, fires, lightning, accidents, corrosive atmosphere, or other conditions beyond the control of CARRIER CORPORATION.
6. Parts not supplied or designated by CARRIER CORPORATION.
7. CARRIER CORPORATION products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

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Model No.

Unit Serial No.

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Date of Installation

Installed by

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Name of Owner

Address of Installation

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