# ENGINEERING DATA

FIELD CONTROLS
Improving Indoor Environments

# EvenAir AOR Package

## Add-On Replacement Construction

Whole House Comfort Control System

| MODEL | | PART NUMBER |
|---|---|---|
| ☐ | T32 Thermostat 3H/2C | 580011106 |
| ☐ | T32WF Thermostat WiFi 3H/2C | 580011107 |
| ☐ | TS51 Temperature Sensor Single Model | 580011301 |
| ☐ | TS52 Temperature Sensor Dual Model* | 580011302 |
| ☐ | TSER Temperature Sensor Wireless | 580011305 |
| ☐ | TSRC Temperature Sensor Remote | 580011410 |
| ☐ | ER1 Electronic Receiver Module | 580011205 |
| ☐ | PNP25C Additional 25ft Modulating Damper Ctrl Cable/Connector | 580011525 |
| ☐ | TS3 Outdoor Temperature Air Sensor | 580011301 |

*Requires up to 2 Temperature Sensors*

### AVAILABLE MODULATING DAMPER

| | | | | | |
|---|---|---|---|---|---|
| ☐ | MDP-4 | 603202104 | ☐ | MDP-10 | 603202110 |
| ☐ | MDP-5 | 603202105 | ☐ | MDP-12 | 603202112 |
| ☐ | MDP-6 | 603202106 | ☐ | MDP-14 | 603202114 |
| ☐ | MDP-7 | 603202107 | ☐ | MDP-16 | 603202116 |
| ☐ | MDP-8 | 603202108 | ☐ | MDP-18 | 603202118 |
| ☐ | MDP-9 | 603202109 | ☐ | MDP-20 | 603202120 |
| ☐ | MDP-8X8 | 603210808 | ☐ | MDP-16X10 | 603211610 |
| ☐ | MDP-10X8 | 603211008 | ☐ | MDP-18X10 | 603211810 |
| ☐ | MDP-12X8 | 603211208 | ☐ | MDP-20X10 | 603212010 |
| ☐ | MDP-14X8 | 603211408 | ☐ | MDP-22X10 | 603212210 |
| ☐ | MDP-16X8 | 603211608 | ☐ | MDP-24X10 | 603212410 |
| ☐ | MDP-18X8 | 603211808 | ☐ | MDP-12X12 | 603211212 |
| ☐ | MDP-20X8 | 603212008 | ☐ | MDP-14X12 | 603211412 |
| ☐ | MDP-22X8 | 603212208 | ☐ | MDP-16X12 | 603211612 |
| ☐ | MDP-24X8 | 603212408 | ☐ | MDP-18X12 | 603211812 |
| ☐ | MDP-10X10 | 603211010 | ☐ | MDP-20X12 | 603212012 |
| ☐ | MDP-12X10 | 603211210 | ☐ | MDP-22X12 | 603212212 |
| ☐ | MDP-14X10 | 603211410 | ☐ | MDP-24X12 | 603212412 |

### OPTIONAL CONTROL ACCESORIES

| | | | | | |
|---|---|---|---|---|---|
| ☐ | FC80HRV | 60510004080 | ☐ | FAD4 | 46590504 |
| ☐ | FC150HRV | 60510006150 | ☐ | FAD5 | 46590504 |
| ☐ | FC200HRV | 60510006200 | ☐ | FAD6 | 46590504 |
| ☐ | FC80ERV | 60510005080 | ☐ | FAD7 | 46590504 |
| ☐ | FC150ERV | 60510007150 | ☐ | FAD8 | 46590504 |
| ☐ | FC200ERV | 60510007200 | ☐ | FAD10 | 46590504 |
| ☐ | MDP-20X8 | 094021A0004 | ☐ | VENTCOOL WHOLE HOUSE FAN ** | |
| ☐ | MDP-22X8 | 094021A0104 | ☐ | IWHF INTEGRATED WHOLE HOUSE FAN ECONOMIZER ** | |

** Refer to Product Specific Brochure for Part Numbers and Models

## DESCRIPTION

The EvenAir® Whole House Comfort Control System works with the heating and cooling appliances to bring temperature balance to the home. EvenAir® system thermostat monitors the sleeping area and living area temperatures. The comfort control automatically adjusts the system airflow. Uniform air delivery balances temperatures for a comfortable home.

The EvenAir® installation is simple. An EvenAir® system thermostat is installed where existing thermostat is located. A temperature sensor is installed in the sleeping area. Area Comfort Dampers that control the airflow to the sleeping area and living area will be installed in the ductwork.

## FEATURES

- Every two minutes during a heating or cooling call an adjustment to the airflow will be made if the living and sleeping area temperatures differ by 2°F or more.
- The EvenAir thermostat continues to automatically adjust airflow to find the right distribution for heating or cooling airflow to keep the living and sleeping area comfortable.
- At night the thermostat uses the temperature sensors in the sleeping area to control heating and cooling calls, just as if the thermostat was moved upstairs to the sleeping area.
- Airflow Override Feature allows up to 3 hours of directed airflow to living area for special gatherings
- Thermostat provides a large, bright, touch, LCD display
- WiFi version thermostat is directly interchangeable with standard thermostat
- LED lights on damper to indicate open and close positions
- Plug & Play Modulating Damper operation
- Hidden key protected Installer options
- Separate USER/Homeowner options
- Advanced HVAC system DS/BK/ODD/DHUM Home Dehumidification Control

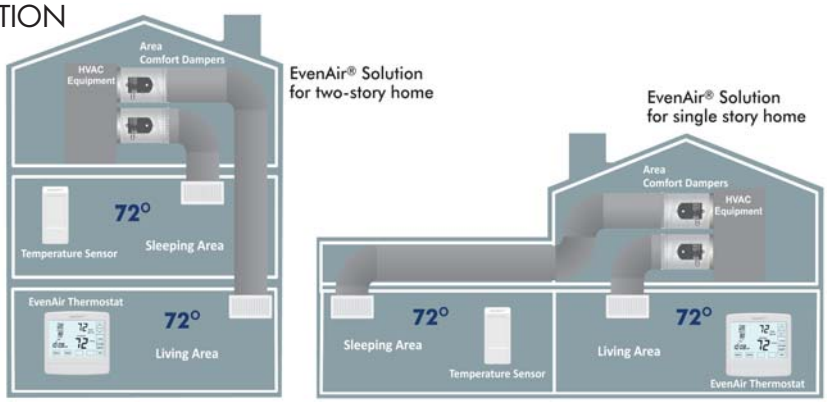
## BENEFITS

- Energy Saving during Night Time Hours
- Standard multi-size dampers available for every installation
- HERS Testing: same as traditional single-thermostat installation
- Requires only one airflow test as compared to zoning testing
- No BYPASS damper required. No energy wasted.
- Lower cost of installation:
  - o No zoning panel required.
  - o No discharge air sensor.
  - o No bypass duct and damper.
  - o No barometric damper.
  - o Less wires. Uses standard 5 wire between thermostat and air handler.

## OPTIONAL ACCESSORIES

- Fresh Air Damper (FAD) or HRV/ERV products to meet ASHRAE 62.2 Ventilation Requirements
- Whole House Economizer System (3 Damper) or Whole House Fan (VentCool)
- Home Humidification (S2000/S2020) System
- Remote Control Temperature Sensor (TSRC)
- Wireless Temperature Sensors (TSER) requires Electronic Receiver Module (ER1) installed

## APPLICATION





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P/N 780501200 03/18 RevA

# ENGINEERING DATA EVENAIR AOR PACKAGE

## ELECTRICAL REQUIREMENTS

| | Power | Watts |
|---|---|---|
| Thermostat | 24VAC | 1.9VA |
| MDP Dampers | 24VAC | 2.4VA |

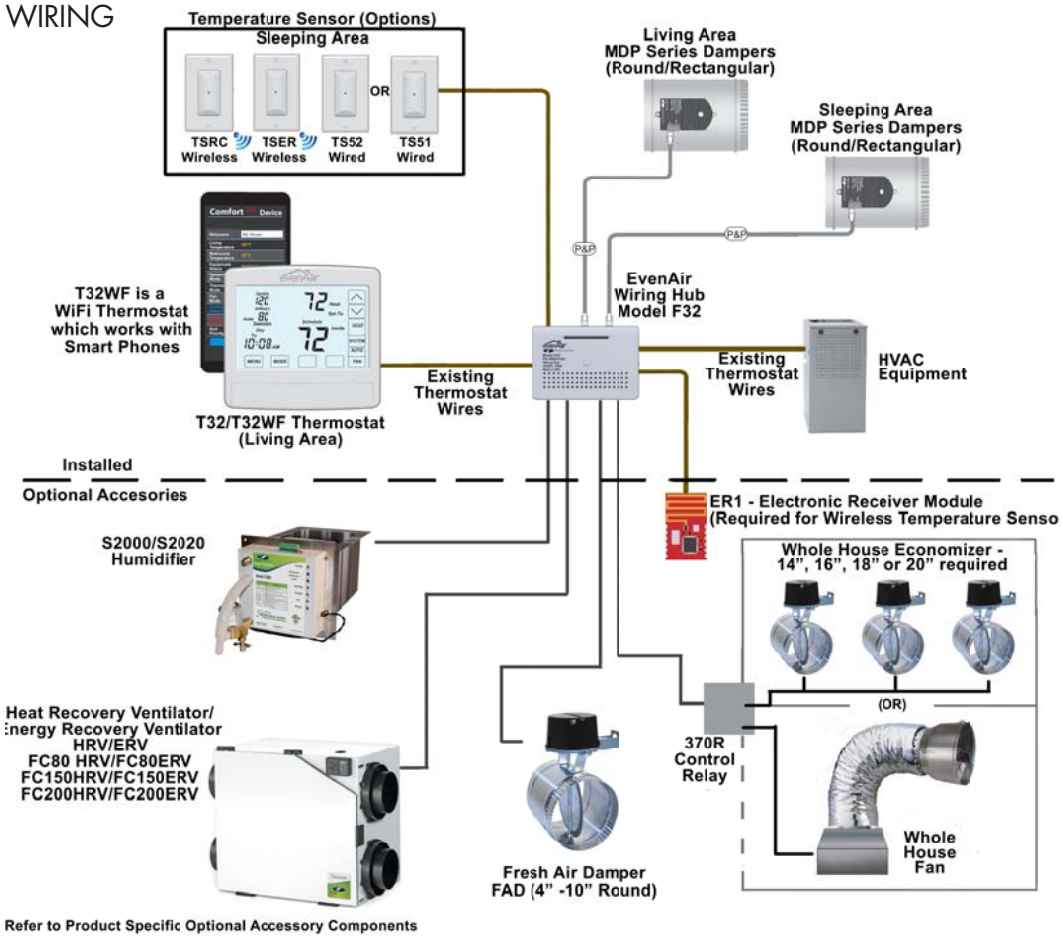
## ROUND DIMENSIONS

| MODEL | A | B | C | D |
|---|---|---|---|---|
| 4" | 4.0 | 10.0 | 6.0 | 6.85 |
| 5" | 5.0 | 10.0 | 6.0 | 7.85 |
| 6" | 6.0 | 10.0 | 6.0 | 8.85 |
| 7" | 7.0 | 10.0 | 6.0 | 9.85 |
| 8" | 8.0 | 10.0 | 5.0 | 10.85 |
| 9" | 9.0 | 10.0 | 5.0 | 11.85 |
| 10" | 10.0 | 10.0 | 5.0 | 12.85 |
| 12" | 12.0 | 12.0 | 6.0 | 14.85 |
| 14" | 14.0 | 14.0 | 7.0 | 16.85 |
| 16" | 16.0 | 16.0 | 8.0 | 18.85 |
| 18" | 18.0 | 18.0 | 9.0 | 20.85 |
| 20" | 20.0 | 20.0 | 10.0 | 22.85 |

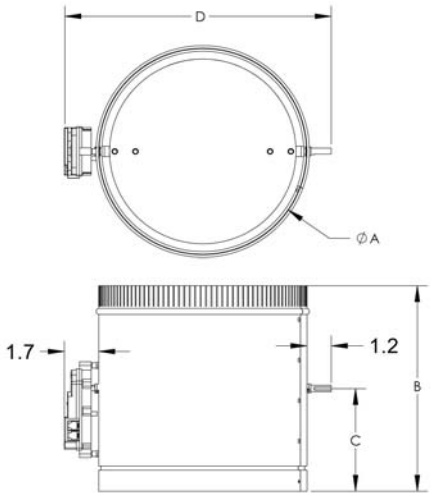
## RECTANGULAR DAMPER

| MODEL | E | F | G | H |
|---|---|---|---|---|
| 8X8 | 8.0 | 7.75 | 7.75 | 9.43 |
| 10X8 | 8.0 | 7.75 | 9.75 | 11.43 |
| 12X8 | 8.0 | 7.75 | 11.75 | 13.43 |
| 14X8 | 8.0 | 7.75 | 13.75 | 15.43 |
| 16X8 | 8.0 | 7.75 | 15.75 | 17.43 |
| 18X8 | 8.0 | 7.75 | 17.75 | 19.43 |
| 20X8 | 8.0 | 7.75 | 19.75 | 21.43 |
| 22X8 | 8.0 | 7.75 | 21.75 | 23.43 |
| 24X8 | 8.0 | 7.75 | 23.75 | 25.43 |
| 10X10 | 10.0 | 9.75 | 9.75 | 11.43 |
| 12X10 | 10.0 | 9.75 | 11.75 | 13.43 |
| 14X10 | 10.0 | 9.75 | 13.75 | 15.43 |
| 16X10 | 10.0 | 9.75 | 15.75 | 17.43 |
| 18X10 | 10.0 | 9.75 | 17.75 | 19.43 |
| 20X10 | 10.0 | 9.75 | 19.75 | 21.43 |
| 22X10 | 10.0 | 9.75 | 21.75 | 23.43 |
| 24X10 | 10.0 | 9.75 | 23.75 | 25.43 |
| 12X12 | 12.0 | 11.75 | 11.75 | 13.43 |
| 14X12 | 12.0 | 11.75 | 13.75 | 15.43 |
| 16X12 | 12.0 | 11.75 | 15.75 | 17.43 |
| 18X12 | 12.0 | 11.75 | 17.75 | 19.43 |
| 20X12 | 12.0 | 11.75 | 19.75 | 21.43 |
| 22X12 | 12.0 | 11.75 | 21.75 | 23.43 |
| 24X12 | 12.0 | 11.75 | 23.75 | 25.43 |

## WIRING




## ROUND DAMPER

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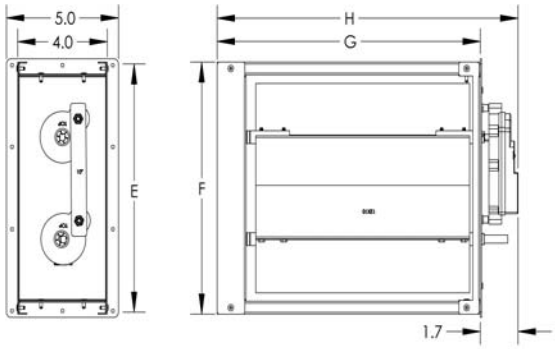


## PROJECT INFORMATION

| | |
|---|---|
| Quoted by: | Date: |
| Project: | Remarks: |
| Quantity: | |
| Model: | |
| Site: | |
| Architect | |
| Engineer: | |
| Contractor: | |


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