



ERV-24-HC11 Thermostat with FanCycler®



24VAC Surface Mount Thermostat With FanCycler® Applications

General

The ERV-24 brings you the cutting edge in technology into an extremely simple 24Vac thermostat. FanCycler® methods are incorporated into the attractive, surface mounted thermostat which has a large, easy-to-read, display.

Features

- Main Supply 24Vac
- Fresh Air Damper output - 24Vac – Power Open / Spring close
- Remote sensor connection or Average option
- Offset for temperature reading adjustment
- Lock buttons (Tamper proof)
- Data Storage – Diagnostics
- FanCycler® build in

DIP Switch/Jumper selection

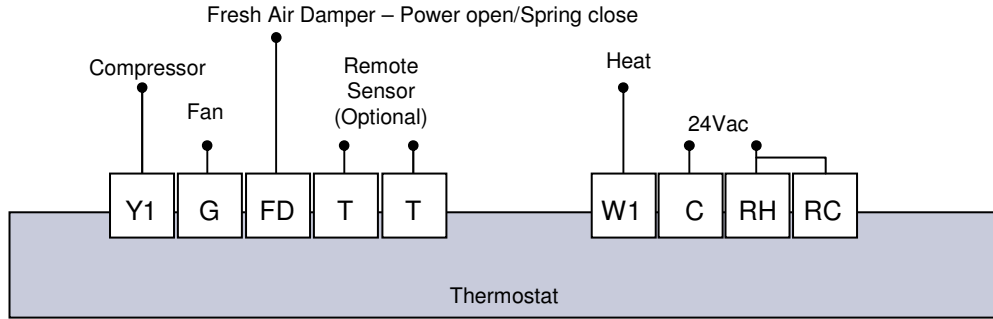
- Programmable or non Programmable
- Auto Change-Over or Manual Heat-Cool
- Compressor 3 minute delay
- Fan Mode (Electric or Oil/Gas)

Models

Model	Cool Stages	Heat Stages	Speeds
ERV-24-HC11	1	1	1

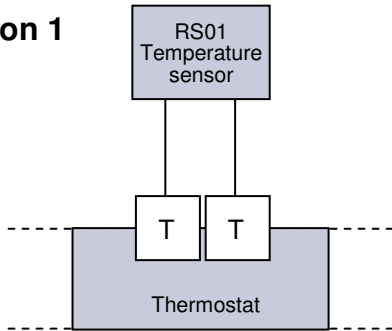


Electrical Diagram

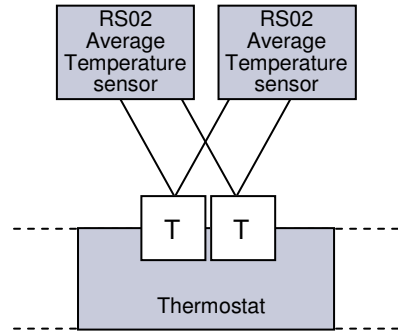


Remote Sensors Connections - Options

Option 1



Option 2



FanCycler® – Configurable Features

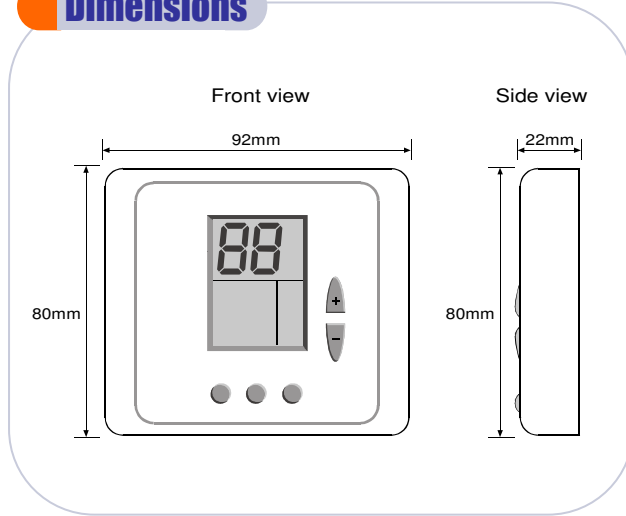
- Fan cycling
- Ventilation damper cycling
- Fan over-run after cooling operation
- Fan Cycling availability at night in heating mode
- Combo system pump cycling (multi-family application)

Data Storage - Diagnostics

- Average cooling set point (while cooling is active)
- Average heating set point (while heating is active)
- Average number of cooling cycles per day (while in cooling mode)
- Average number of heating cycles per day (while in heating mode)
- Average length of cooling cycle
- Average length of heating cycle



Dimensions



Specifications

Temperature Range	50°F - 90°F
Weight	0.3 Lbs. / 0.125 Kg
Scale	°F
Color	White
Accuracy	±1.5°F
Plastic	PC/ABS
Flammability	UL94V-0
Temperature Input	Thermistor 50K@77°F

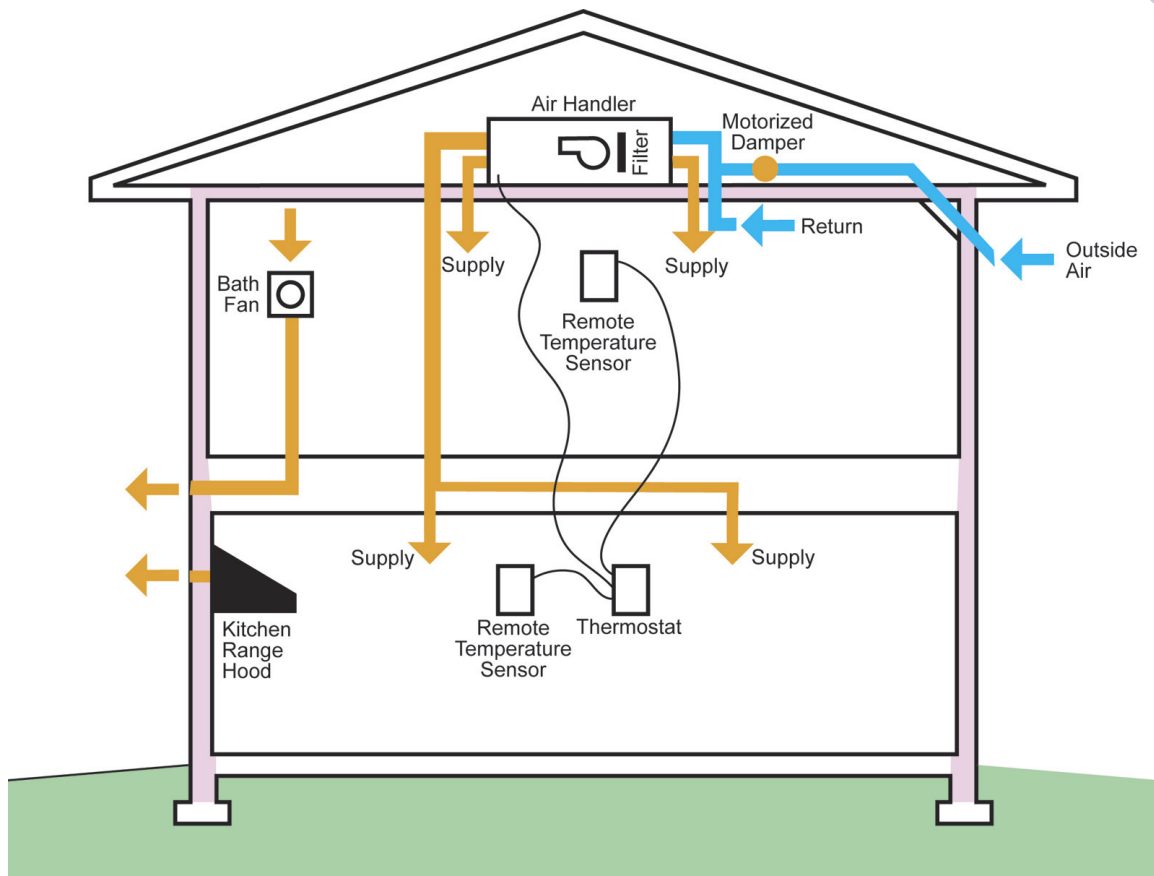
Accessories

Part Number	Description
TS01	Temperature Sensor – 30 Inch Cable
RS01	Temperature Sensor into decorative box
RS02	Temperature Average Sensor into decorative box
WP4	Decorative Back Plate for ERV





General Layout



About

The ERV-24-HC11 thermostat with FanCycler® has enhanced features to compliment controlled mechanical ventilation systems. These features were configured by your installing technician. A brief summary description follows:

FAN CYCLING CONFIGURATION — The purpose of fan cycling is to assure that the central air handler fan will run enough to distribute ventilation air and evenly mix air throughout the house when there is no demand for heating or cooling. Rather than operate the fan continuously or by a simple timer that can't consider prior operation, the FanCycler® method saves energy and wear and tear on equipment by only operating the fan if it hasn't already operated enough.

VENTILATION DAMPER CYCLING — The purpose of cycling the ventilation damper is to limit the possibility of over-ventilating during peak-load conditions which could cause unnecessary space conditioning energy consumption. If the fan stays on longer than needed for the introduction of ventilation air, the damper will automatically close.