

Model 8570 Thermostat:

The "One" Thermostat...

...the "right" thermostat to cover virtually every application.

Whether the application is heat/cool or heat pump, single-or multi-stage, residential or light commercial, the Model 8570 is the thermostat to help build your business.

The 8570 thermostat provides exceptional value for you and your customers because it is easy to install, program and operate.

Boasting a large, easy-to-read, vibrantly backlit display, this thermostat provides more "at-a-glance" information about the HVAC system, its accessories and the indoor and outdoor environment than any other thermostat.

Plus, it's menu-driven operation is so intuitive, both you and your customers will find it simple to program – even without the manual. It's that easy. No more nuisance callbacks.

Take it for a test drive at www.aprilairecontractor.com.



Heat/Cool Control

- Up to 2 Heat / 2 Cool

Heat Pump Control

- Up to 3 Heat / 2 Cool

Selectable Operation

- Programmable or Non-Programmable
- Heat and Cool
- Heat Only
- Cool Only

CONSUMER BENEFITS

Simplest Programming and Operation Available

- Menu driven approach results in the ultimate simplicity.

Large Backlit Display

- Convenient viewing at any light level.

Equipment Monitors

- Tells the user when to change their air filter, service their humidifier, change their UV Germicidal Lamp(s) or service their HVAC equipment. This results in greater comfort, maximum operating efficiency, long equipment life and a satisfied customer.

Displays Outdoor Temperature and Indoor Relative Humidity

- By means of connection to optional outdoor sensor or Automatic Humidifier Control the thermostat becomes your personal indoor environment center.

Holiday Feature

- Allows the thermostats program to be overridden until the date and time you select whether you're away for hours, days or weeks.

Progressive Recovery (selectable)

- Assures that the heating or cooling equipment starts at the optimum time to reach your chosen set point after an overnight set back.

Permanent Program Memory

- The program and all application settings are permanently stored even in a power outage. Clock setting is maintained for 5 days accounting for routine equipment service.

Automatic Daylight Savings Time Adjustment (selectable)

CONTRACTOR BENEFITS

The "One" Thermostat for Your Business

- Ideal for both residential and light commercial applications.
- Controls either single or multi-stage equipment
- Compatible with virtually all types of equipment – split system, rooftop, hydronic, heat pumps (including dual fuel), etc.
- Selectable operation: Programmable or Non-Programmable

Customer Retention

- Thermostat displays your name and phone number assuring you get the call for service and replacement parts like filters, humidifier Water Panels, UV bulbs.

Simplest Programming and Operation

- Reduces nuisance calls associated with old fashioned programmable thermostats.



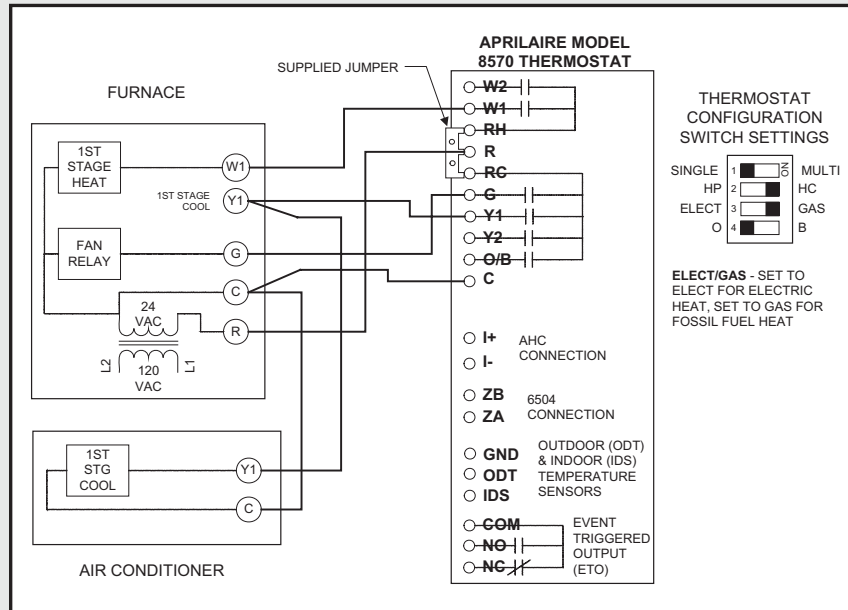
Intelligent Installation Options

- Create intelligent solutions through connection to Aprilaire Automatic Humidifier Control or Model 6504 Intelligent Zoned Comfort System
- View or control other thermostats through the 6504.
- Extend blower operation for added humidification run time.
- Displays when the humidifier is operating.
- View outdoor temperature and indoor relative humidity.



APRILAIRE MODEL 8570 THERMOSTAT

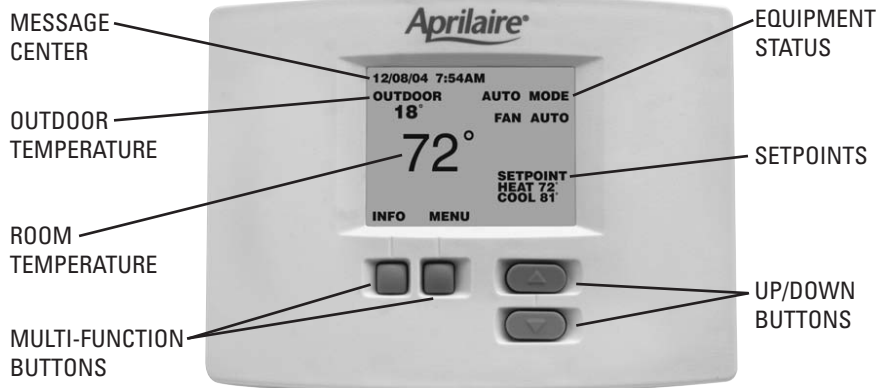
WIRING DIAGRAM - TYPICAL SINGLE-STAGE WIRING SHOWN



OUTPUT TERMINALS

W1	1st-Stage Heat / Aux. Heat
W2	2nd-Stage Heat / Aux. Heat
Y1	1st-Stage Cooling/Compressor
Y2	2nd-Stage Cooling/Compressor
G	Fan
R	24V Hot
C	24V Common
RC	24V (AC) Supply From Cooling Equipment
RH	24V (AC) Supply From Heating Equipment
O/B	Reversing Valve

MAIN SCREEN VIEW



Additional Features

Programmable Fan
 Field Calibration
 Temporary or Permanent Hold
 Adjustable Differential
 Thermostat Lockout Settings
 Residential or Commercial Display Verbiage
 Event Triggered Dry Contact (NO, COM, NC)

PRODUCT SPECIFICATIONS

Electrical	
Thermostat Voltage	24-volts $\pm 20\%$ AC or DC
Max. Total Load Current	5A
Max. Load Current thru Single Output	2A
Thermal	
Operating Range	32°F – 99°F (0°C – 37°C)
Display Accuracy	$\pm 1^\circ\text{F}$ between 60°F and 80°F, $\pm 2^\circ\text{F}$ outside this range
Control Accuracy	$\pm 1^\circ\text{F}$
Control Range Heat	40°F – 88°F (4°C – 30°C)
Control Range Cool	42°F – 90°F (6°C – 32°C)
Heat/Cool Deadband	Selectable 2°F or C / 5°F or C
1st Stage Differential	Adjustable 1°F – 4°F (1°F default)
2nd Stage Differential	Adjustable 1°F – 4°F (1°F default)
Balance Point Control	Low Adjustable -10°F to 35°F; High Adjustable 40°F to 80°F



View or adjust the entire program schedule at-a-glance.