

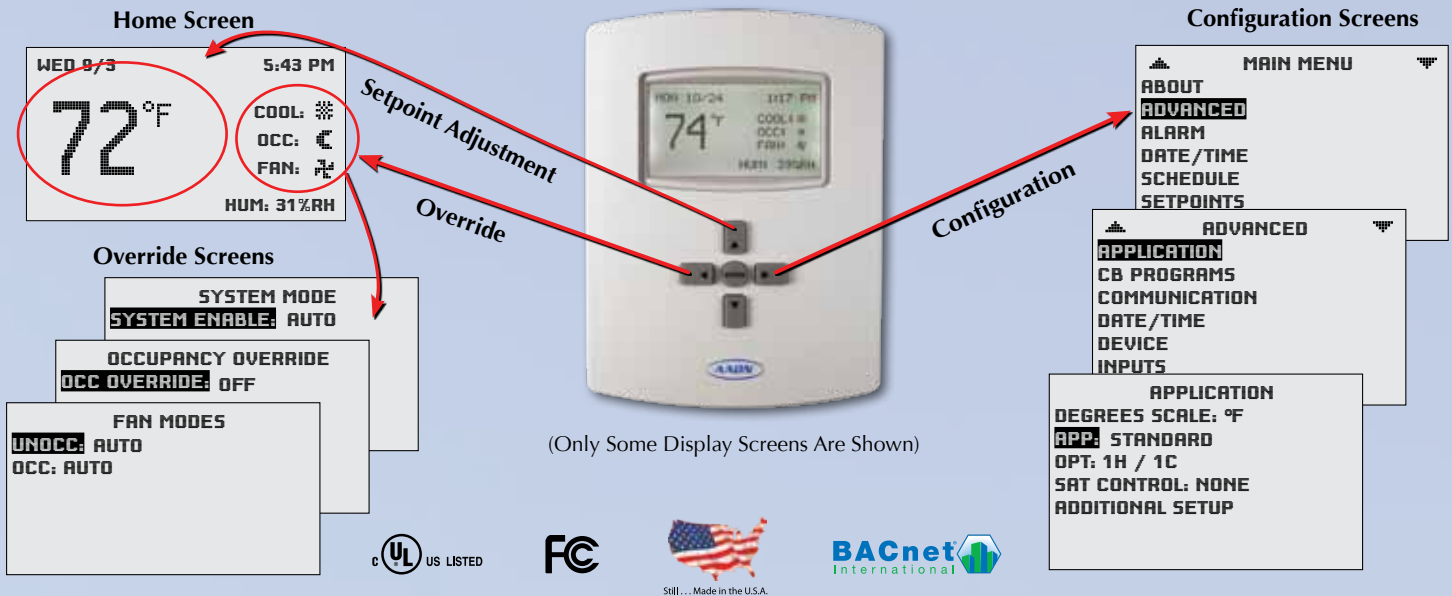


Mini Controller

Economical and easy climate control at your fingertips

Exclusively for equipment with variable capacity compressors





Introducing the Mini Controller

AAON products are available with the Mini Controller user interface. The Mini Controller is a networkable thermostat and controller with built-in temperature and (optional) humidity sensors. The flexible, powerful, yet simple BACnet programmable thermostat allows set-and-forget control over an indoor environment without the expense of a large building automation system.

It is designed as an **economical** alternative to onboard control and compatible with a range of AAON equipment sizes. **It is designed specifically for use with equipment incorporating variable capacity compressors.**

Energy saving options include schedules, modulating (sensible or enthalpy) economizer control, and CO₂ options for demand control ventilation.

It can function as stand-alone control or as part of a BACnet MS/TP networked system. If installed as a stand-alone application, the network can be added later if desired. Networking enables monitoring and control from remote locations.

Models are available with space temperature control, space humidity control and space CO₂ control.

Applications

Mini Controller applications include:

- CAV (Constant Air Volume) or SZVAV (Single Zone Variable Air Volume)
- Heat Pump for CAV or SZVAV

Applicable AAON products include:

2–70 ton Roof Top Units (RTU)

- RQ Series
- RN Series (A, B, C, and D box sizes)

Direct Expansion Air Handling Units (AHUs)

- F1 Series
- H3 Series
- V3 Series

Condensing Units

- CB Series
- CC Series

Models

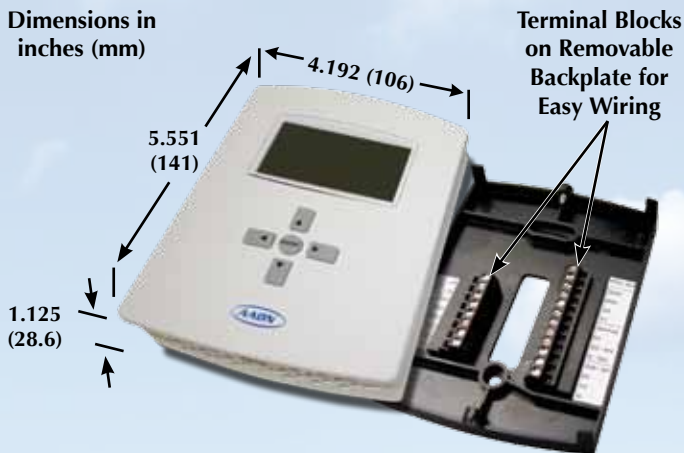
Mini Controller models currently include:

- R80570—Space Temperature Control
- R80580—Space Temperature and Humidity Control

Features

Easy to configure and easy to use, the Mini Controller has many features, including the following:

- Designed as a remotely mounted controller that has consolidated temperature sensing and control, with humidity sensing and dehumidification activation as well as occupancy control via schedules.
- User-friendly, high-contrast, backlit, dot-matrix LCD display with five buttons for menu-driven configuration and operation.
- Values of outside air humidity, supply air temperature, and/or outside air temperature (if applicable) display on the screen.
- In addition to the built-in sensors, multiple analog inputs are available for external sensors, which include options for suction pressure, outside air humidity, CO₂, remote space temperature, space temperature averaging, fan status, supply air temperature, and/or outside air temperature.
- During installation, easily select from the built-in, factory-tested library of configurable application control sequences.
- Configurable password protection, with three levels of password-protected access to configuration, scheduling and setpoint adjustment, prevents disruption of operation and configuration.



- Users can easily adjust the setpoint and (if allowed) change system modes, occupancy override, and fan speed.
- Built-in scheduling with Weekly, Weekdays/Weekends, Daily, and Holidays options for easy configuration.
- Multiple built-in alarms and trend logs enhance system monitoring.
- Provides variable capacity compressor lead stage and can be configured for a lag on/off compressor.
- Configurable for on/off or modulating supply fan.
- Heat (in Standard Mode) supports up to three stages, providing for modulating gas (additional device required) and for SCR electric (additional device required). Heat (in Heat Pump Mode) has up to two additional stages, providing for modulating gas (additional device required) and for SCR Electric (additional device required).

These features and more make the Mini Controller the ideal control solution for your applications.

For additional details, see the installation guide and the user's manual for the Mini Controller.

Contact your local AAON
representative to see how an
AAON Mini Controller would
benefit you.



Defining Quality. Building Comfort.

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