

Honeywell Hydronic Heating Solutions



**One Source For All Your
Hydronic Product Needs.**

Honeywell

AQ2000 Series Electronic Controls for Hydronic Heating Systems

Simple. Powerful. Affordable.



AQ250 Relay Control Panels

Loaded with standard features.

- Line- or low-voltage output
- 1-stage zoning
- Controls pumps or zone valves
- Expandable up to 16 zones
- Zone synchronization
- Boiler short cycling protection
- Boiler post-purge
- Domestic hot water priority (override) protection
- Freeze protection
- Pump/valve exercise
- Automated test features for quick start-up and troubleshooting



AQ251 Reset Control Panels

All the great features of AQ250 controls, plus:

- Customizable control settings and schedules allow for greater level of control and comfort
- Outdoor temperature compensation (reset)
- Allows outdoor temperature to be displayed on all thermostats
- Central set-back schedules available
- Automated purge feature for quick start-up and simple troubleshooting



AQ255 And AQ257 Zoning Expansion Panels

For use with zone valves (with and without end switches).

- Zone expansion up to 16 zones
- Zone synchronization
- Auto test function tests zones at system start-up
- Status LCDs for easy diagnostics



AQ255 Zoning Expansion Panels — Pumps

For use with pumps.

- Zone expansion up to 16 zones
- Zone synchronization
- Auto test function tests zones at system start-up
- Status LCDs for easy diagnostics



AQ1000TN2 Communication Thermostat

- Dedicated thermostats
- 2-wire “polarity insensitive” power-stealing communicating thermostats
- Easy-to-read backlit display
- Outdoor temperature is shown on display (with outdoor reset models only)
- Can display Fahrenheit or Celsius
- Settings memory retained on power loss

Switching Relays and Zone Valves

Trusted, reliable zoning options.



Switching Relays

These single-zone switching relays provide intermediate switching.

R8845/RA889

- Provide switching of line- and low-voltage devices from a line- or low-voltage controller in oil-fired or gas-fired hydronic heating systems
- One model replaces several competitive models
- Replacement relay common to other Honeywell hydronic replacement controls
- Two troubleshooting LEDs and push-to-test button

RA832/RA89/R845

- Provide switching of line-voltage devices from a low-voltage controller in oil-fired or gas-fired hydronic heating systems
- 120 V, 50/60 Hz transformer
- 2-wire, 24 V control circuit
- DPSTswitching



5000 Series Zone Valve

The ultimate in zone valve technology and reliability.

- “Quick Fit” push-button actuator removal feature offers robust metal-to-metal connection
- Patented ball seal design provides a new sealing surface each time the valve operates
- Silent operation reduces customer complaints and callbacks
- Easily serviceable — no need to remove valve from pipe to change or replace inside parts
- Handles up to 300 psi static pressure
- Upgrade opportunity actuator is backward-compatible with installed base of 1000 series zone valve
- 3-year warranty



1000 Series Zone Valve

The reliable 1000 Series is designed for service and convenience — fits on virtually every system.

- Patented ball seal design provides a new sealing surface each time the valve operates
- Valve seal and ball plug are easily accessible — no cutting or refitting required
- Built on Honeywell tradition for compatibility with a full range of thermostats
- Handles up to 125 psi static pressure
- 1-year warranty

Individual Manifolds

Make just the right connection.



MZV Series

Fast-acting PowerTrack zone valves.

- Quick-opening motorized actuator mounts directly onto Honeywell brass-valved manifolds
- Provides individual loop flow control on multiple-zoned manifold
- 30 mm collar
- PowerTrack actuator is available with or without end switch
- Normally closed; power open (10-15 sec.), spring close (5 sec.)
- Must be installed in the upright (vertical) position



MT4 Series

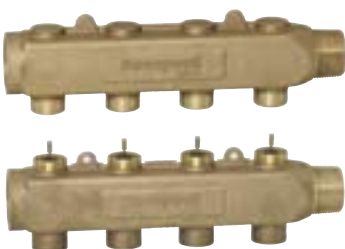
Smart-T thermal electric actuator.

- Thermal electric actuator mounts directly onto Honeywell brass-valved manifolds
- Provides individual loop flow control on multiple-zoned manifolds
- 30 mm collar
- Normally closed with end switch
- Open/close cycle time is 4 to 5 minutes
- Quiet operation



RM Series Supply And Return Radiant Manifolds

- Used in combination as supply and return manifold for individual loop control in multi-zoning systems
- Heavy-duty cast bronze, 1" ID
- Maximum flow up to 3.5 GPM per branch
- Available in 2-port, 3-port and 4-port connections



SZ Series Baseboard And Snowmelt Manifolds

- Allows easy connection to existing hot water heating systems
- Typically used in conjunction with heat exchanger loops with chemical inhibitor for freeze protection
- Manual flow adjustment with balancing valve
- Heavy duty cast bronze, 1-1/4" ID

Air Elimination

Effectively eliminates air, noise and callbacks.



PV Series SuperVent[®]

Effectively eliminates air and noise from hydronic heating systems.

- Debris baffle to control dirt fouling and prevent failure
- NPT and sweat connections 3/4", 1", 1-1/4", 1-1/2", 2" for application flexibility
- No-clog vent ends leaking and callbacks
- Adjustable vent top collar ring allows easier installation and application flexibility



FV Series GoldTop[™]

Universal air vent for residential and commercial heating and cooling systems.

- Low-cost vent that performs at both low and high pressures
- Used in heating systems to vent air that has accumulated due to the heating of cold water



FV Series MaxiVent[™]

Air vent for heating and cooling systems.

- Low-cost vent that performs at both low and high pressures
- Features a low-profile, fit-anywhere solid brass body and cover, and a high-temperature polypropylene float



EA122 Automatic Air Vent

Provides extra protection to keep heating systems operating efficiently.

- Removable float/valve assembly for easy servicing
- Internal parts made of corrosion-resistant and chemical-resistant materials
- Purges air trapped in closed hot or cold water systems to maintain quiet and efficient operation
- Built-in vacuum breaker and brass shutoff valve for servicing without system shutdown

Expansion Tanks And Thermostatic Radiator Valves

Convenient, quality solutions.



TK300 Series

Accommodate the expansion of water in a closed hot water heating or solar system.

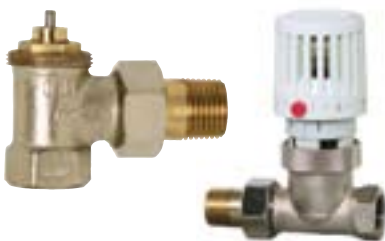
- The diaphragm separates the air cushion from water and prevents absorption of air cushion by the water, thus avoiding water logging
- Compact design
- Precharged tank has a maximum operating temperature up to 240° F and a maximum operating pressure up to 100 psi



Tank Kits

Every hydronic application. One easy box.

- Each kit includes an Expansion Tank, Boiler Fill Valve/Backflow Preventer and SuperVent® Air Eliminator or Air Purger/Vent
- Saves time, labor, parts and money
- Available in standard and supreme models to fit every application requirement



V110 Series High-Capacity Thermostatic Radiator Valve And T104 Radiator Actuator

Continuously monitored control.

- Provides precise and automatic control of room temperature in two-pipe systems
- Continually monitors and adjusts room temperature for consistent comfort
- Valve seat disc is made of resilient material (EPDM), ensuring tight shutoff on steam or hot water systems
- Actuator provides comfort and energy savings for individual room control



V2000 Series Standard Capacity Thermostatic Radiator Valve And T100 Radiator Actuator

Comfort, energy savings and long-term performance.

- Continually monitors and adjusts room temperature for consistent comfort
- Valve seat disc is made of resilient material (EPDM), ensuring tight shutoff on steam or hot water systems
- Actuator provides comfort and energy savings for individual room control
- Radiator valves — one-pipe steam TRV (V2043HSL10) includes 1/8" NPT connection, angle pattern valve body and steam vent

Additional Hydronic Components For Increased Profits

Reliable Honeywell products increase customer satisfaction and reduce callbacks.



AM-1 Series Thermostatic Mixing Valve For Radiant Heating

A mixing valve specifically designed for radiant heating systems. *R-model for heating applications only.*

- Accurately adjusts, maintains and limits the hot water temperature to a desired setting selected by the user
- Precisely measures hot water to maintain consistent temperatures throughout the radiant system



Backflow Preventers

Prevents reverse flow of contaminated water into the potable water system.

BP900/BP901

- Dual-check backflow preventer with intermediate atmospheric vent
- Approvals: ASSE 1012 and CSA Certified
- Maximum operating temperature up to 250° F and a maximum operating pressure up to 175 psi
- 1/2" and 3/4" NPT



Boiler Fill Valves

Pressure-reducing valve controls incoming pressure and allows automatic control of boiler feed water and makeup.

F449

- Designed for expansion tank mounting at point of least pressure change; mounts in any position
- Built-in check valve
- Hand wheel operated shut-off valve
- Threaded connections

FM450

- Fast-fill feature
- Built-in check valve
- Includes both 1/2" sweat and thread connections
- Pressure balanced piston design
- Complete bronze/brass construction



Boiler Fill Valve/Backflow Preventer

Convenient all-in-one assembly controls incoming pressure and allows automatic control of boiler feed water with backflow prevention.

FM911

- Factory set at 12 psi with an adjustment range of 4 to 60 psi
- Maximum operating temperature up to 212° F and a maximum operating pressure up to 150 psi
- Fast-fill feature
- Built-in check valve and stainless steel strainer
- 1/2" sweat and threaded NPT

Learn More

For complete details on increasing profits with Honeywell Hydronic Heating Solutions, contact your Honeywell distributor or visit customer.honeywell.com.

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