

Selection Procedure:

When using AQ2000 controls, selecting components could not be easier. All it takes are four easy steps.

1. Select whether the boiler supply water temperature is reset by the AQ control or not
2. Select zoning equipment (pumps, 2-wire valves or 4-wire valves with end switches)
3. Select number of space heating zones
4. For systems with more than 2 controlled water temperatures, each additional mixed temperature will require an AQ2541E0 expansion control panel plus sufficient zoning modules to manage the zones associated with the additional water temperature

		No Reset						Reset					
		Non-Programmable			Programmable			One system temperature			Two system temperatures		
		Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches
Zoning Module Selection	1 zone							AQ2511B0*					
	2-4 zones	AQ2504B2			AQ25A4B2			AQ2514B2			AQ2524M2		
			AQ2504B2			AQ25A4B2			AQ2514B2			AQ2524M2	
	5-8 zones			AQ2504B4			AQ25A4B4			AQ2514B4			AQ2524M4
		AQ2504B2 + AQ2554P2X			AQ25A4B2 + AQ2554P2X			AQ2514B2 + AQ2554P2X			AQ2524M2 + AQ2554P2X		
			AQ2504B2 + AQ2554V2			AQ25A4B2 + AQ2554V2			AQ2514B2 + AQ2554V2			AQ2524M2 + AQ2554V2	
	9-12 zones			AQ2504B4 + AQ2574V4			AQ25A4B4 + AQ2574V4			AQ2514B4 + AQ2574V4			AQ2524M4 + AQ2574V4
		AQ2504B2 + AQ2558P2X			AQ25A4B2 + AQ2558P2X			AQ2514B2 + AQ2558P2X			AQ2524M2 + AQ2558P2X		
			AQ2504B2 + AQ2554V2 (2)			AQ25A4B2 + AQ2554V2 (2)			AQ2514B2 + AQ2554V2 (2)			AQ2524M2 + AQ2554V2 (2)	
	13-16 zones			AQ2504B4 + AQ2574V4 (2)			AQ25A4B4 + AQ2574V4 (2)			AQ2514B4 + AQ2574V4 (2)			AQ2524M4 + AQ2574V4 (2)
		AQ2504B2 + AQ2558P2X + AQ2554P2X			AQ25A4B2 + AQ2558P2X + AQ2554P2X			AQ2514B2 + AQ2558P2X + AQ2554P2X			AQ2524M2 + AQ2558P2X + AQ2554P2X		
			AQ2504B2 + AQ2554V2 (3)			AQ25A4B2 + AQ2554V2 (3)			AQ2514B2 + AQ2554V2 (3)			AQ2524M2 + AQ2554V2 (3)	
			AQ2504B4 + AQ2574V4 (3)			AQ25A4B4 + AQ2574V4 (3)			AQ2514B4 + AQ2574V4 (3)			AQ2524M4 + AQ2574V4 (3)	

[Product Selector for Additional Water Temperatures](#)
[Wiring diagram for multiple Add-A-Temperature Modules](#)
[Wiring Instructions for Special Applications](#)

NOTE:

Below are links to wiring diagrams of the AQ2000 components in Visio, AutoCAD DWG and AutoCAD DXF Formats
 Click on the applicable file format to access the diagrams' Table of Contents

*AQ2511B0 panel requires either a conventional, non-communicating thermostat OR a switching relay input. It does NOT use AQ1000 communicating thermostats

Visio Version

AutoCAD DWG Version

AutoCAD DXF Version

AQ2000 Series - Hydronic Controls Product Selector

PDF Version

Selection Procedure:

When using AQ2000 controls for more than two water temperatures:

1. Select the AQ2000 panel (previous page)
2. Select the quantity of AQ254 Add-A-Temp Expansion Control Panels needed using the AQ254 selection tool (this page)
3. Save the result (drawing) for each selection in a separate file.

Print out the drawings, OR - if using Visio or AutoCAD - combine them all into one system drawing

		Reset			
		One system temperature			
		Zone pumps	Zone valves without end switches	Zone valves with end switches	
Control Panel Selection	1-4 zones	AQ2541E0 + AQ2554P2X			
			AQ2541E0 + AQ2554P2X		
				AQ2541E0 + AQ2574V4	
	5-8 zones	AQ2541E0 + AQ2558P2X			
			AQ2541E0 + AQ2554P2X + AQ2554V2		
				AQ2541E0 + AQ2574V4 (2)	
	9-12 zones	AQ2541E0 + AQ2558P2X + AQ2554P2X			
			AQ2541E0 + AQ2554P2X + AQ2554V2 (2)		
				AQ2541E0 + AQ2574V4 (3)	
	13-16 zones	AQ2541E0 + AQ2558P2X (2)			
			AQ2541E0 + AQ2554P2X + AQ2554V2 (3)		
				AQ2541E0 + AQ2574V4 (4)	

[Wiring diagram for multiple Add-A-Temperature Modules](#)
[Wiring Instructions for Special Applications](#)

NOTE:

Below are diagrams of the AQ2000 components in Visio, AutoCAD DWG and AutoCAD DXF Format. Click on the respective version to access the diagrams' Table of Contents

Visio Version

AutoCAD DWG Version

AutoCAD DXF Version

AQ2000 Wiring Instructions for Special Applications

[PDF Version](#)

AQ2511B0 Reset Panel with Connections to Non-Communicating Zoning Panel or Thermostat
Combining Pump and Valve Zoning on the Same Zoning Module
Combining Pump and Valve Zoning on Separate Zoning Modules
AQ2000 Control Panel for use with T775 Boiler Stager (multiple boilers)
Programmable AQ2000 Control Panel for One Zone of AC
Programmable AQ2000 Control Panel for One Zone of AC with Fan
AQ2000 Wiring to Oil Aquastat
Using a 24V Zone Valve for DHW & Bypass Valves (AQ2504B2 shown)
Two Stage Zone Control
Wiring for Single and Multiple (Averaging) Sensor Installations
Wiring of VisionPRO IAQ and NC Relay to Aux-In
AQ2511B0 with Tankless Coil
Group Pump Wiring and Sequence of Operation

[Wiring diagram for multiple Add-A-Temperature Modules](#)

[Additional Water Temperature Selector](#)

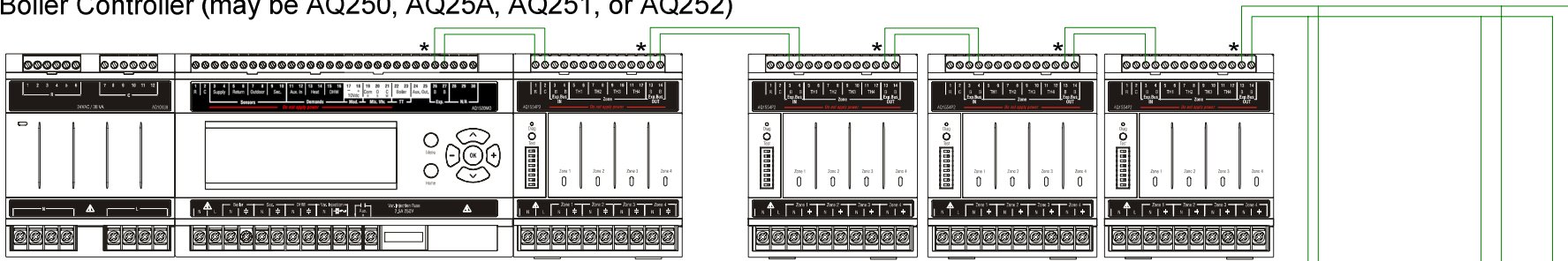
[Visio Version](#)

[AutoCAD DWG Version](#)

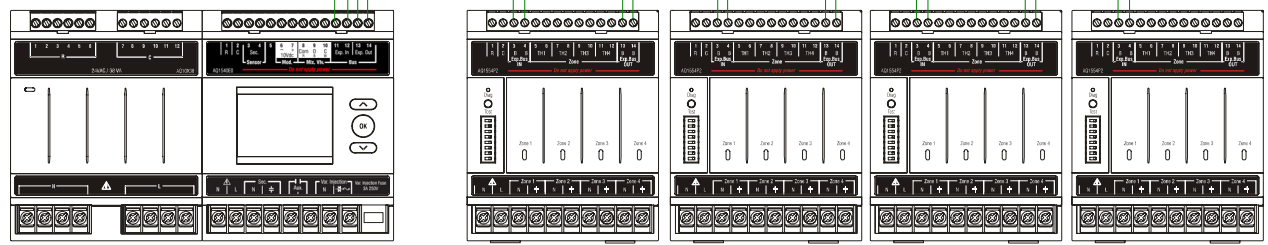
[AutoCAD DXF Version](#)

Wiring Diagram for Multiple Add-A-Temperature Modules

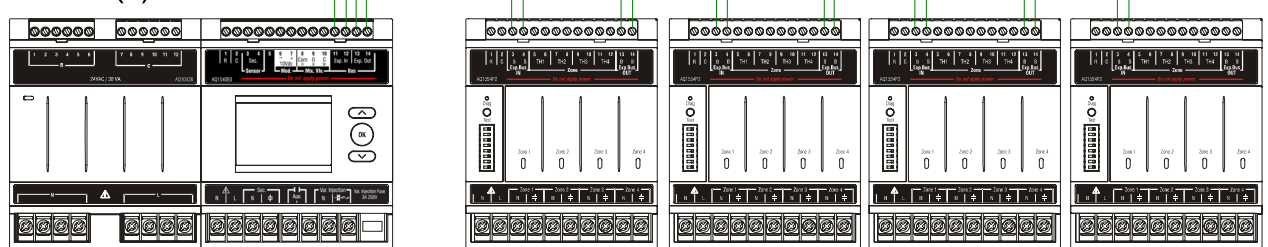
Boiler Controller (may be AQ250, AQ25A, AQ251, or AQ252)



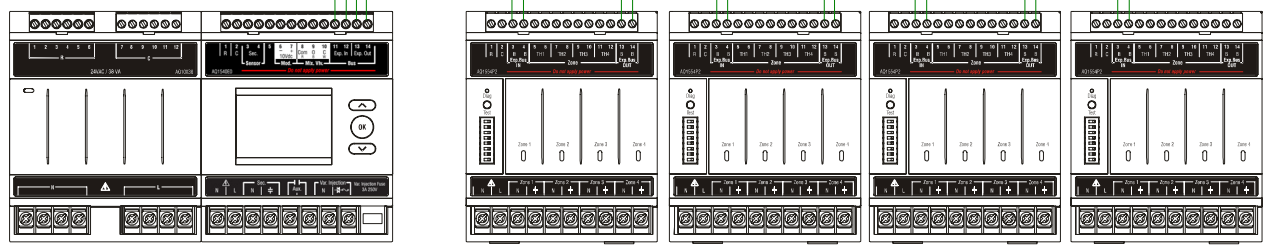
AQ254 (1)



AQ254 (2)



AQ254 (3)

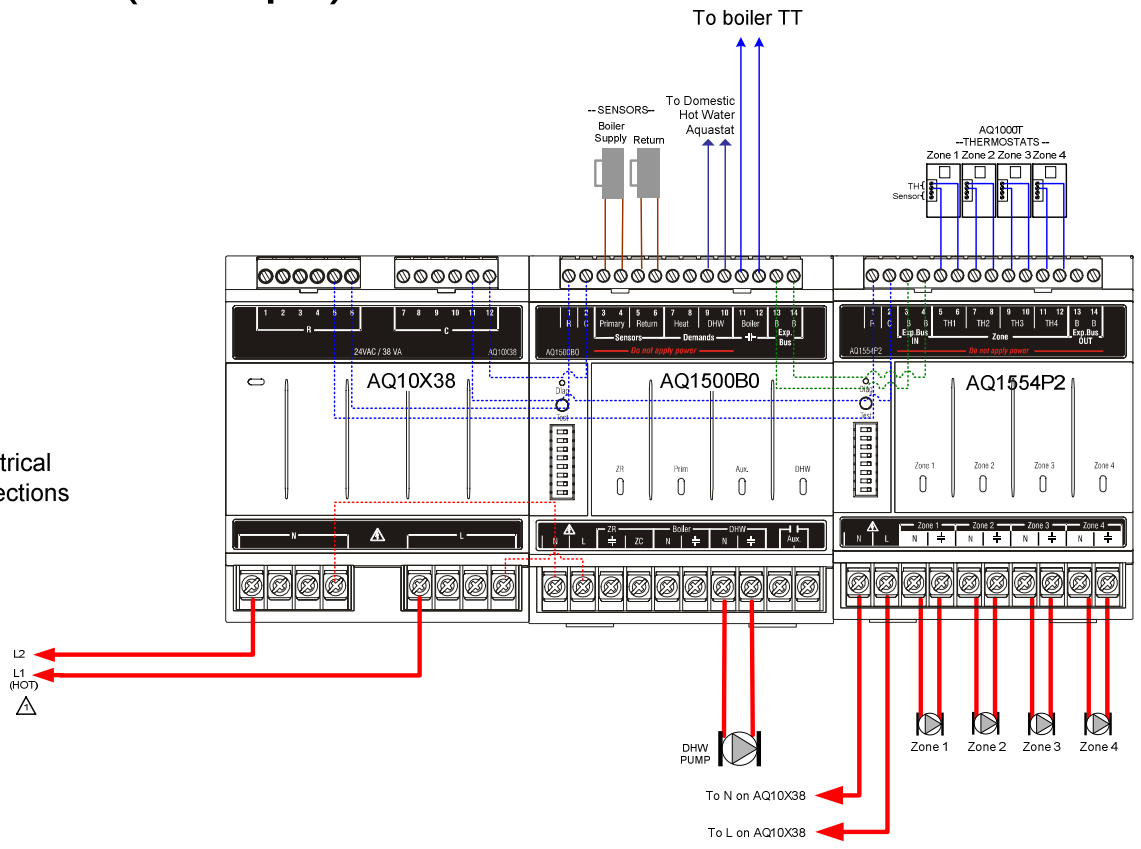


NOTE:
 If more than one AQ254 Control Panel will be installed in a system, the Communication Bus wiring for each additional AQ254 Panel must connect to the data bus of the Main AQ2000 Series Control Panel or the Expansion Zoning Panels connected to it (i.e. Group A on the AQ network). Any of the connection points marked with an asterisk (*) in the accompanying diagram is acceptable.

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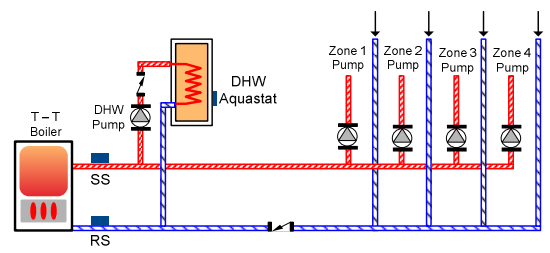
AQ2504B2 (Pumps)

Electrical Connections



⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2504B2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE PUMPS	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

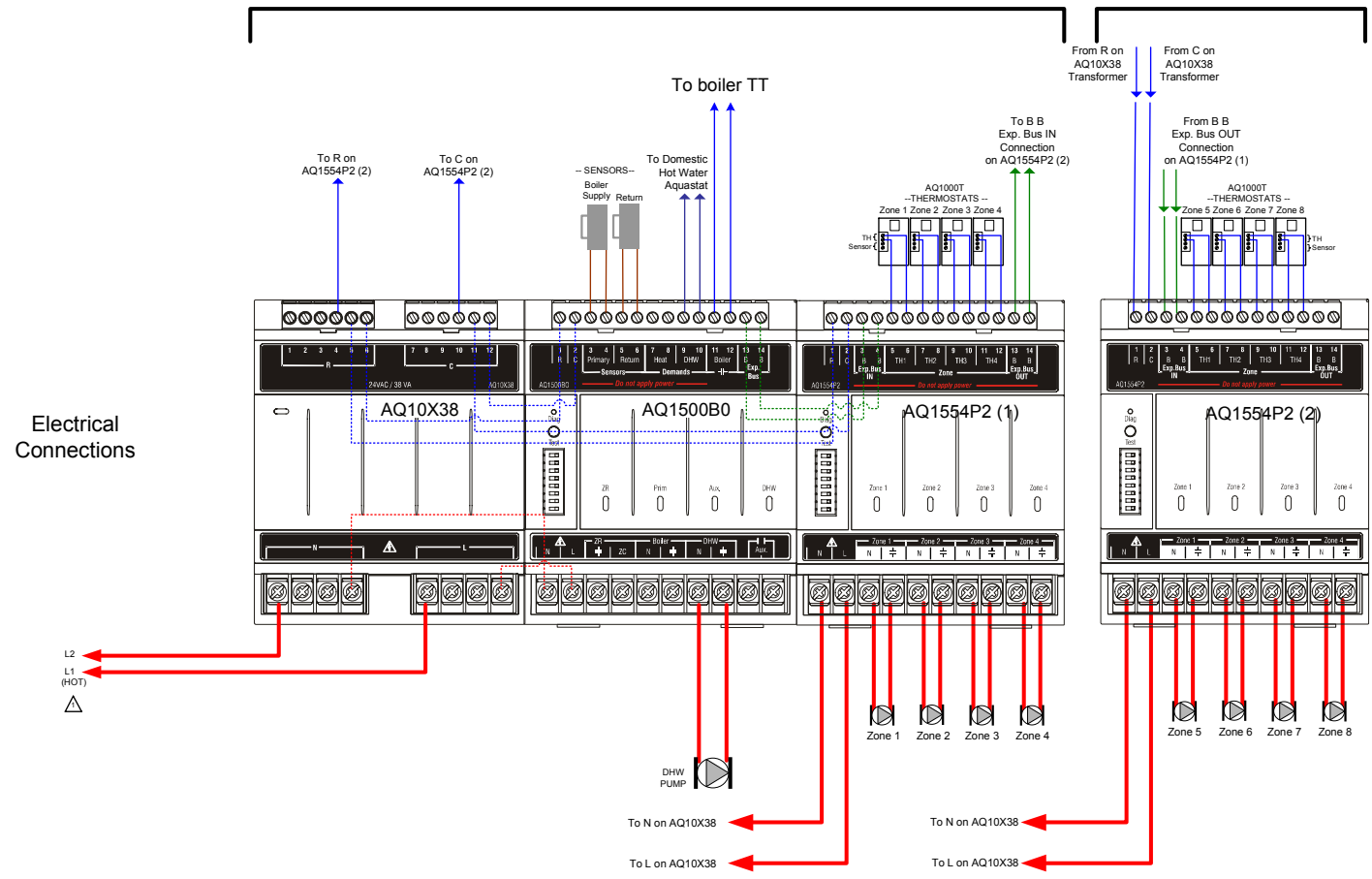
- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

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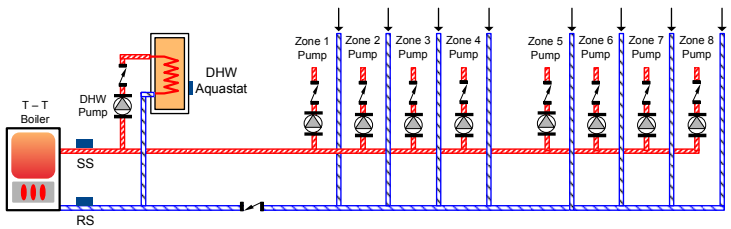
AQ2504B2 + AQ2554P2X

AQ2504B2

AQ2554P2X



Piping Connections



Legend

- Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- - - Field Wiring (line voltage)
- - - Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2504B2	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE PUMPS	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

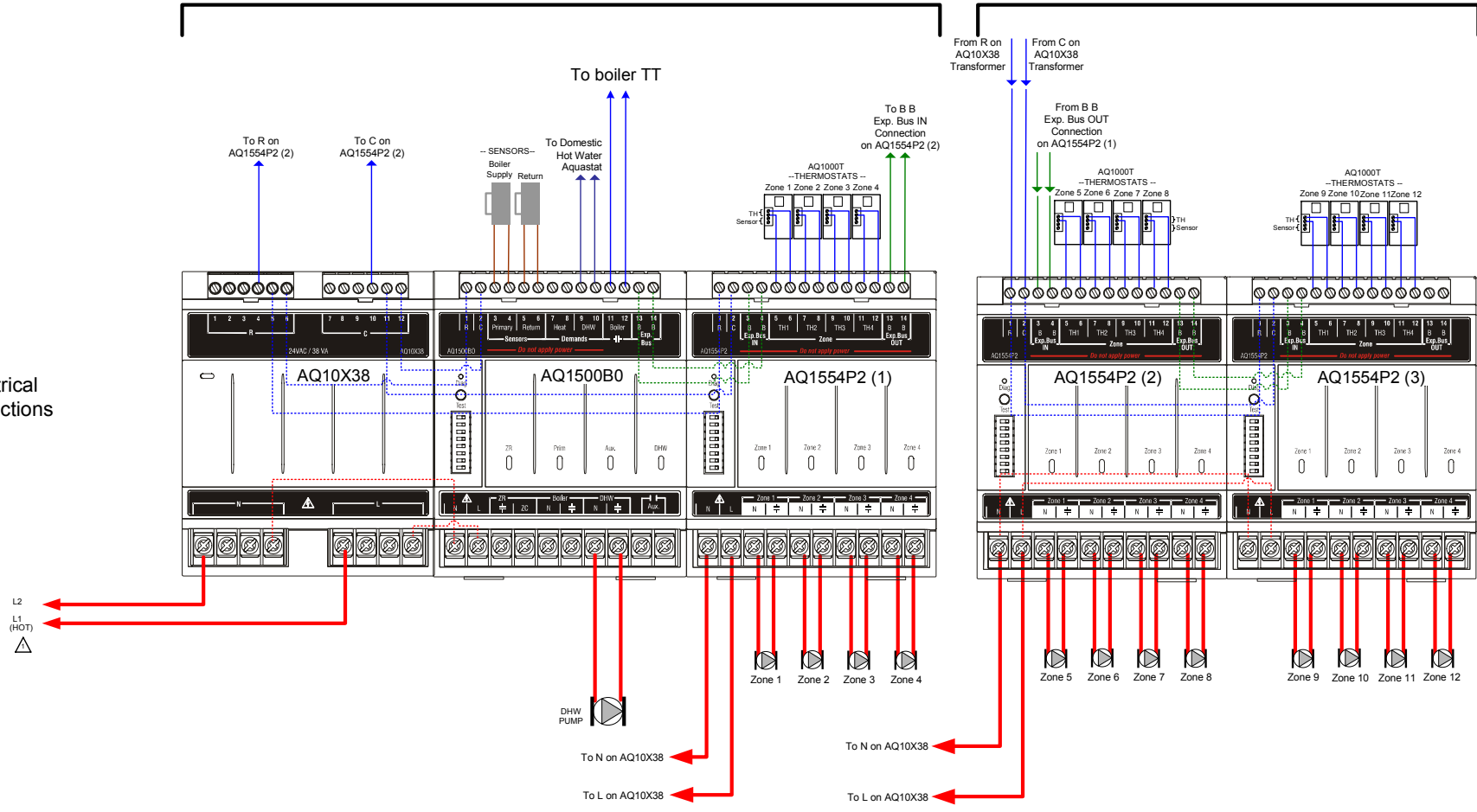
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AQ2504B2 + AQ2558P2X

AQ2504B2

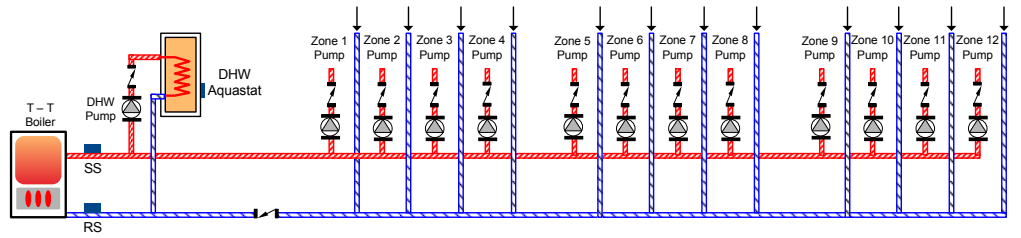
AQ2558P2X

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2504B2	1
AQ2558P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE PUMPS	12
DHW PUMP	1

Suggested Accessories Available from Honeywell:

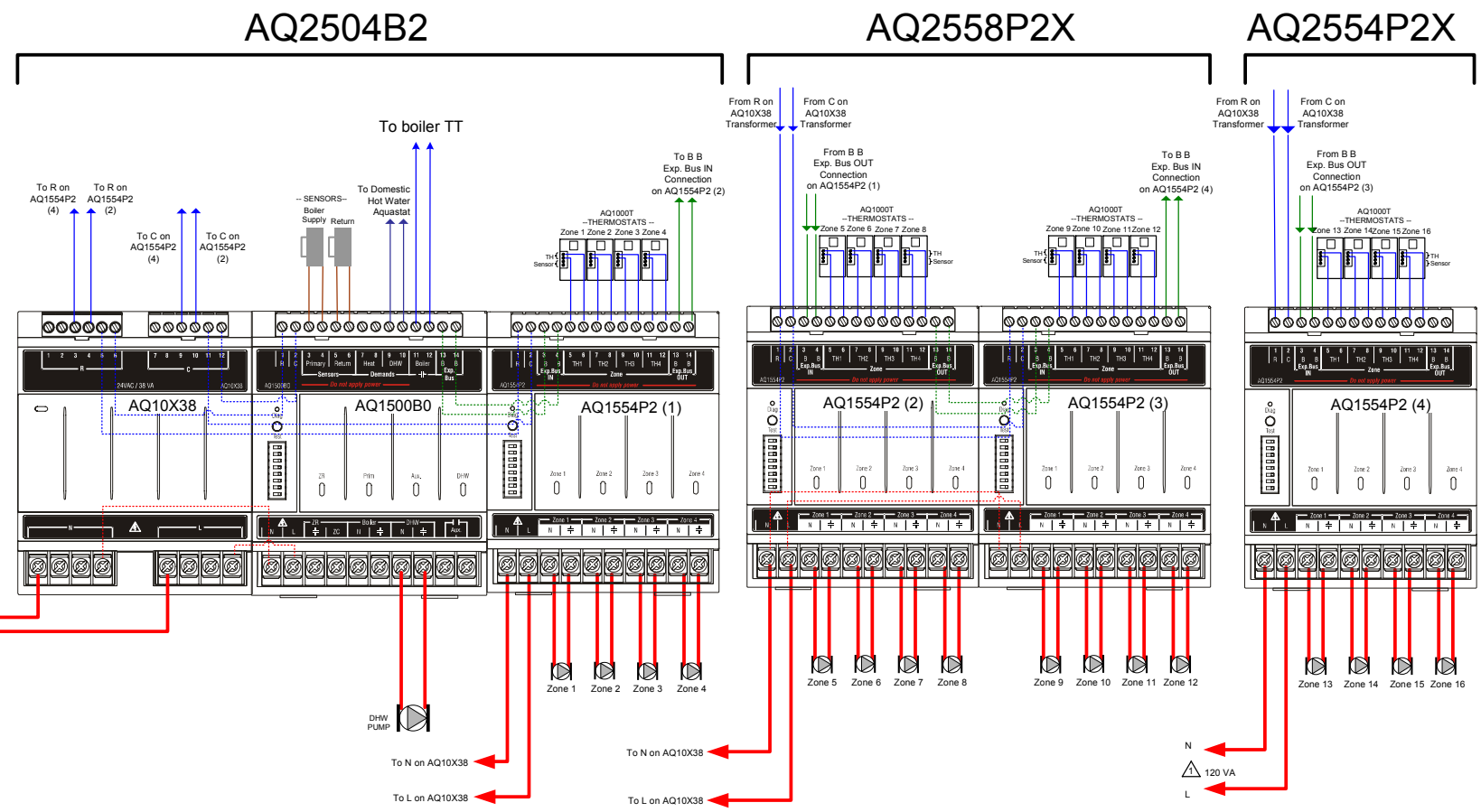
- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

Please select 'Current Page' to print single page.
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AQ2504B2 + AQ2558P2X + AQ2554P2X

Electrical Connections



BILL OF MATERIAL

Parts	Quantity
AQ2504B2	1
AQ2558P2X	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE PUMPS	16
DHW PUMP	1

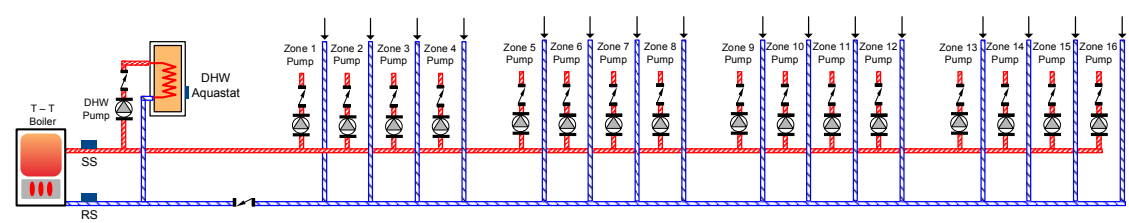
Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

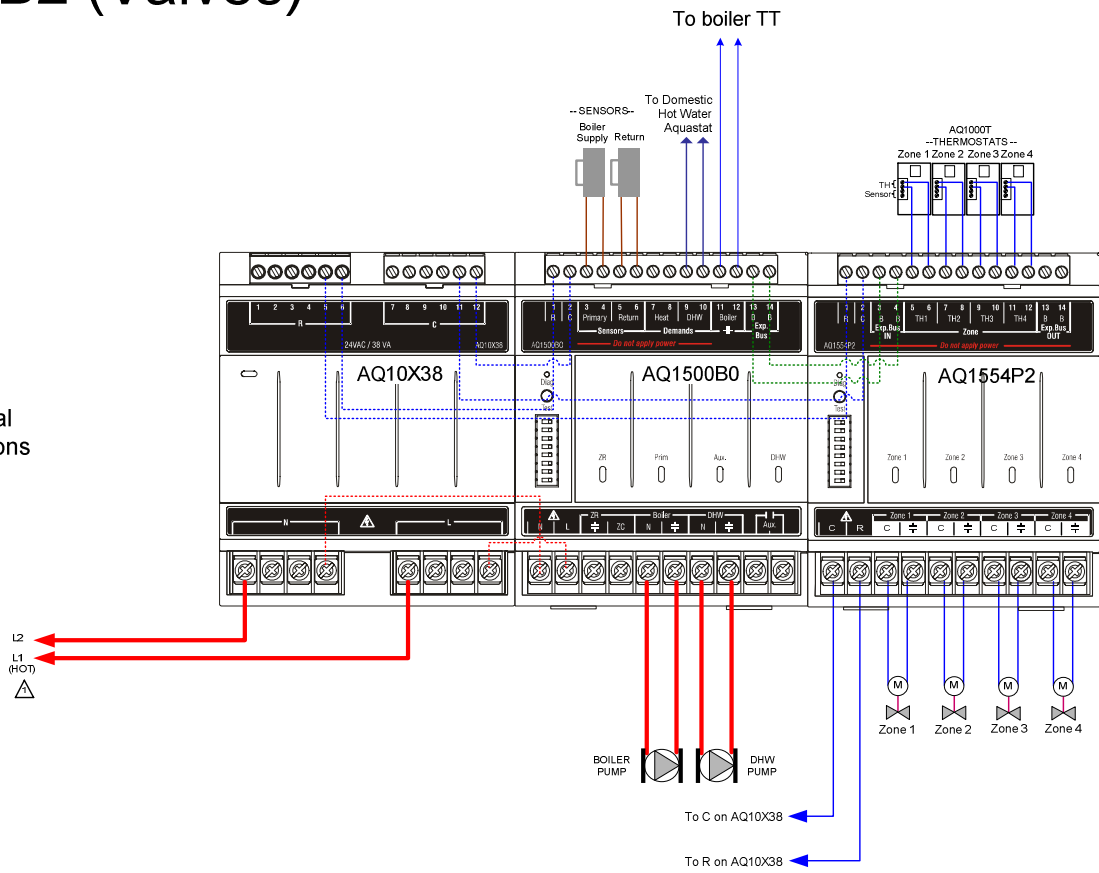
- Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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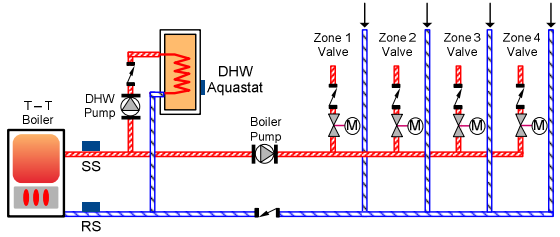
AQ2504B2 (Valves)

Electrical Connections



⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2504B2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043A	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

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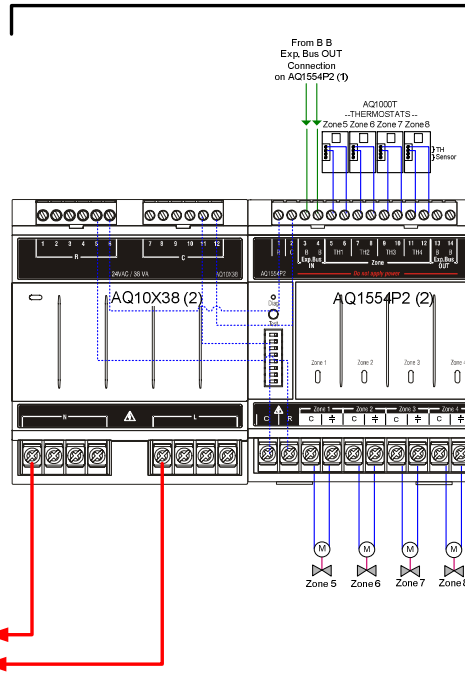
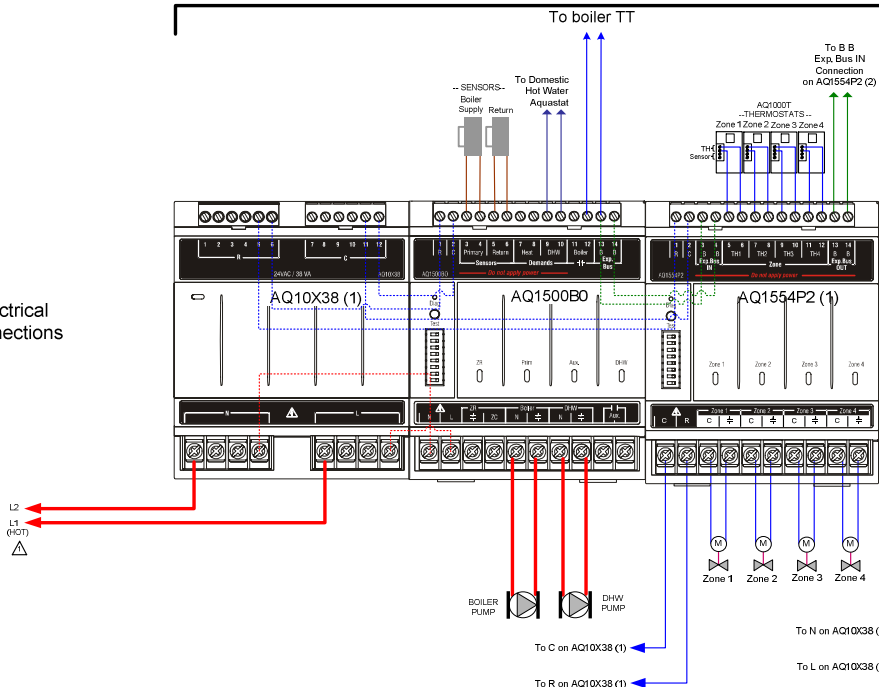
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AQ2504B2 + AQ2554V2

AQ2504B2

AQ2554V2

Electrical Connections



L2
L1 (NCT)

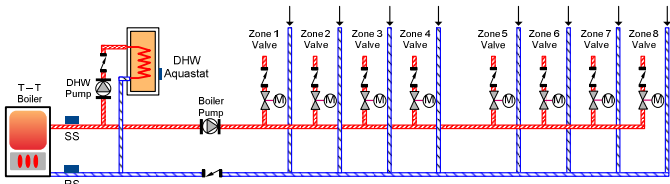
BOILER PUMP

Zone 1 Zone 2 Zone 3 Zone 4

Zone 5 Zone 6 Zone 7 Zone 8

△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2504B2	1
AQ2554V2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE - V8043A	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

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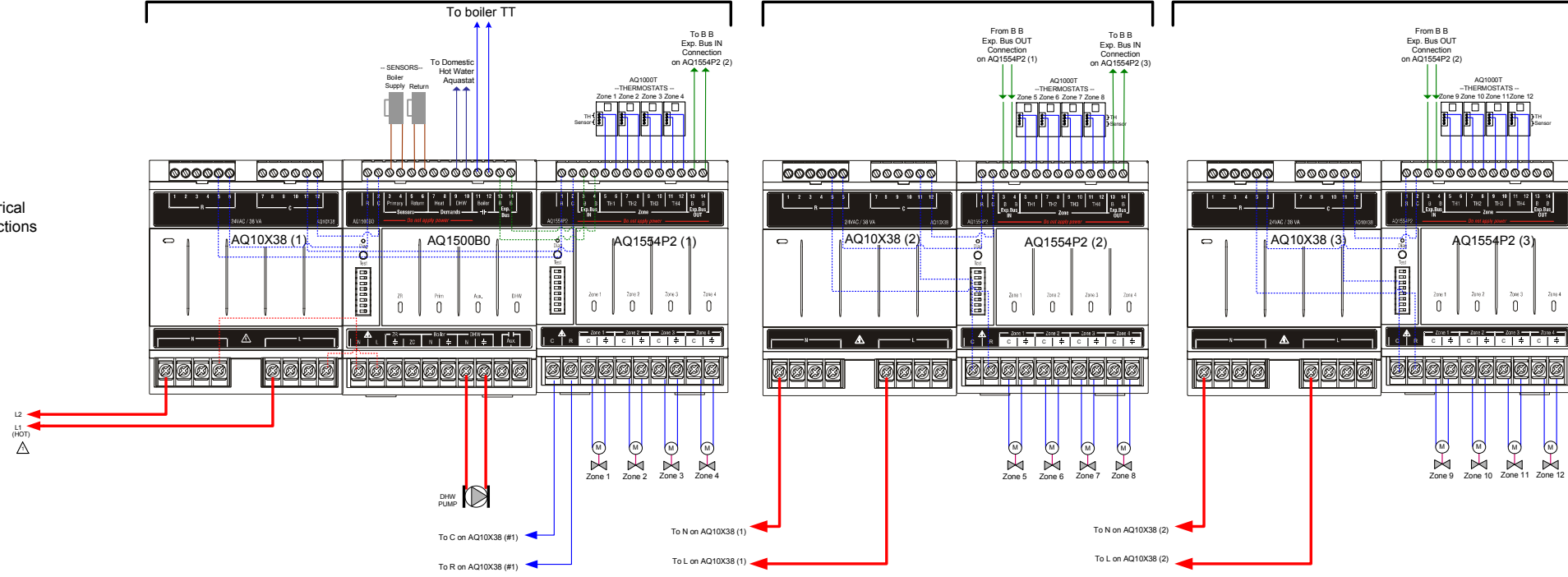
AQ2504B2 + AQ2554V2 (2)

AQ2504B2

AQ2554V2

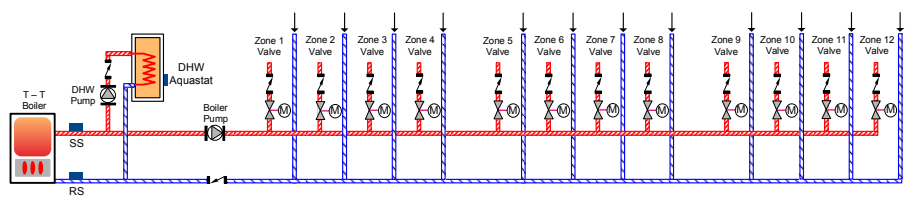
AQ2554V2

Electrical Connections



△ POWER SUPPLY: PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- - - Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2504B2	1
AQ2554V2	2
AQ1000T2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043A	12
DHW PUMP	1

Suggested Accessories Available from Honeywell:

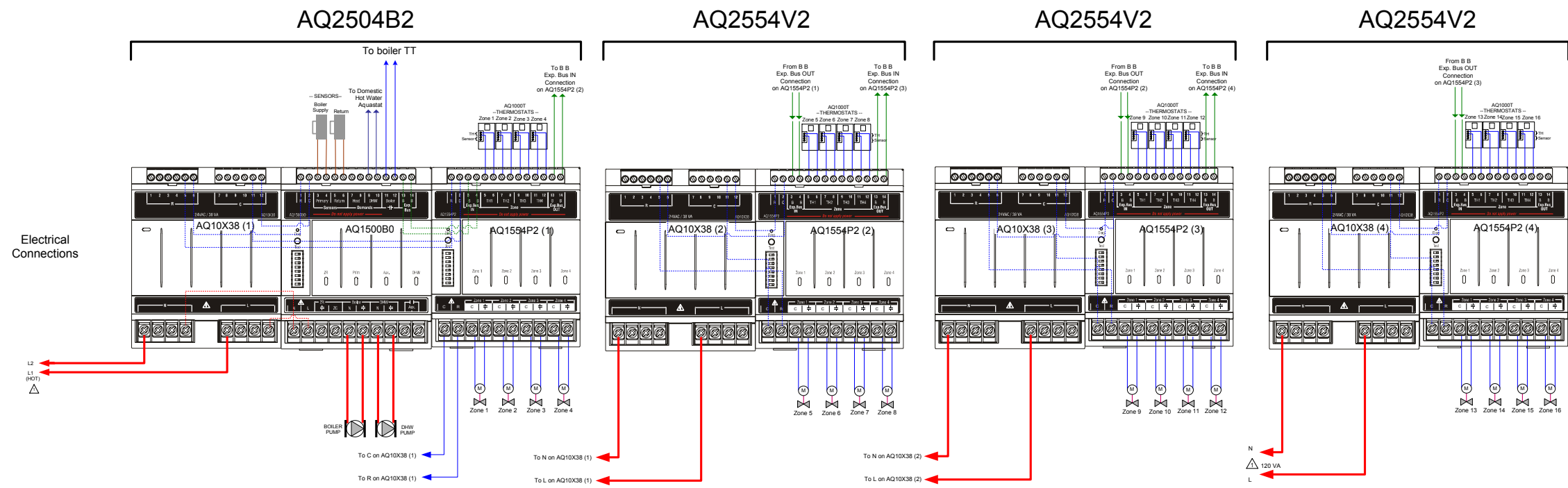
Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

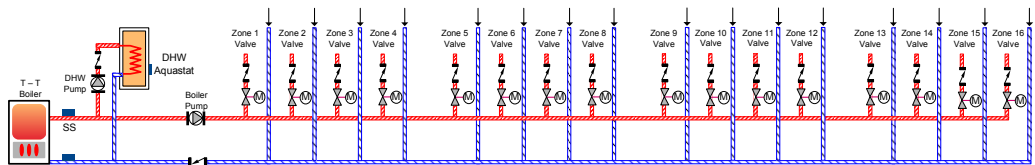
- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

AQ2504B2 + AQ2554V2 (3)



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



BILL OF MATERIAL

Parts	Quantity
AQ2504B2	1
AQ2554V2	3
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE VALVES - V8043A	16
DHW PUMP	1

- Suggested Accessories Available from Honeywell:**
- | | |
|---|---------------------------|
| Hydronic Controls | Potable Controls |
| Air Eliminator | Thermostatic Mixing Valve |
| • PV Series | • AM Series |
| Expansion Tank or Combo Kit | • AMX Series |
| • TK Series | Pressure Reducing Valve |
| Boiler Fill Valve & Back Flow Preventer | • DS05 |
| • FM911 | • DS06 |
| Differential Pressure Regulator | |
| • D146 Series | |
| Radiant Mixing Valve | |
| • AM Radiant Series | |
| Supply/Return Manifolds | |
| • RM & SZ Series | |
| Ball Valves (Water Shutoff) | |
| • B200 Series | |

Legend

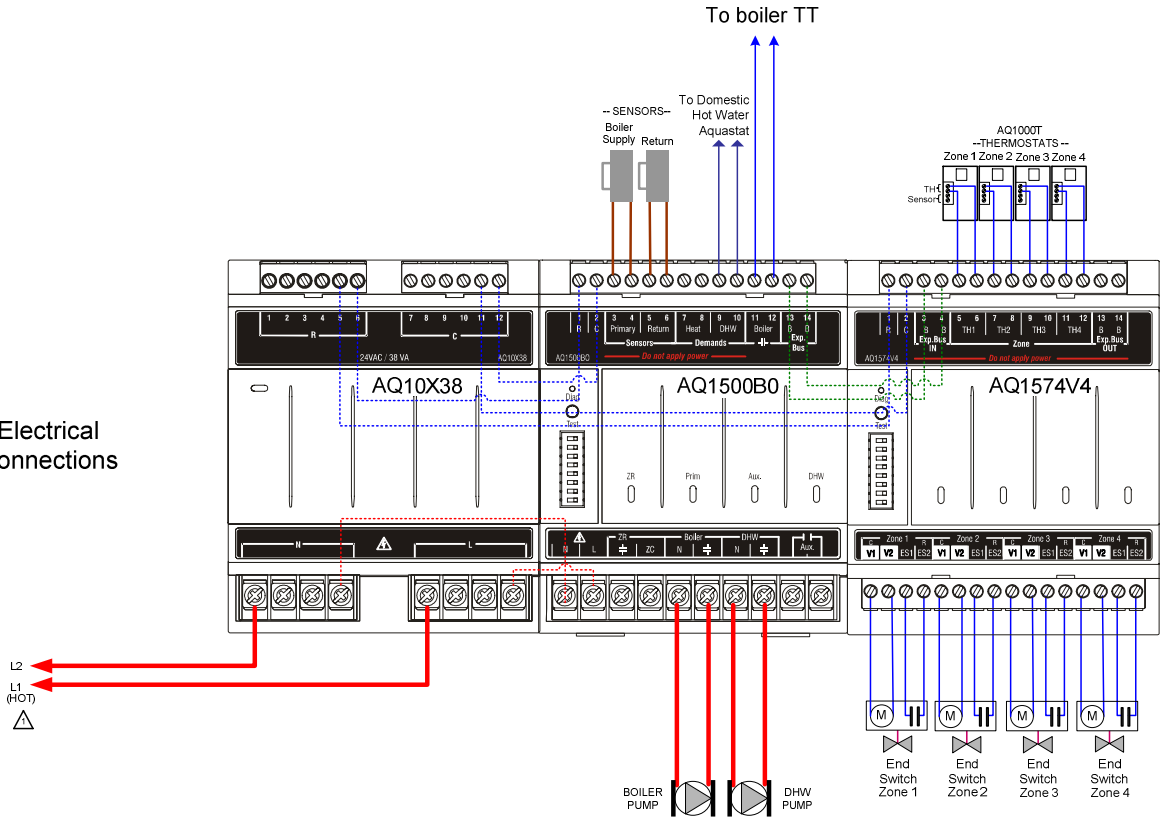
- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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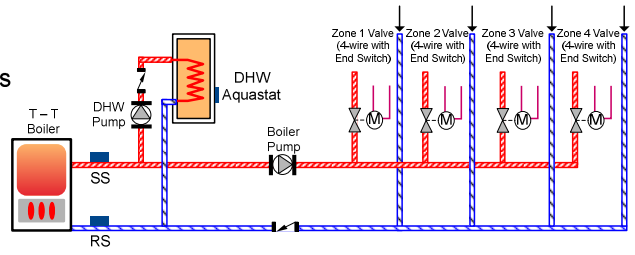
AQ2504B4

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2504B4	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043E/F	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator*
 - PV Series
 - Expansion Tank or Combo Kit*
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer*
 - FM911
 - Differential Pressure Regulator*
 - D146 Series
 - Radiant Mixing Valve*
 - AM Radiant Series
 - Supply/Return Manifolds*
 - RM & SZ Series
 - Ball Valves (Water Shutoff)*
 - B200 Series

- Potable Controls**
- Thermostatic Mixing Valve*
 - AM Series
 - AMX Series
 - Pressure Reducing Valve*
 - DS05
 - DS06

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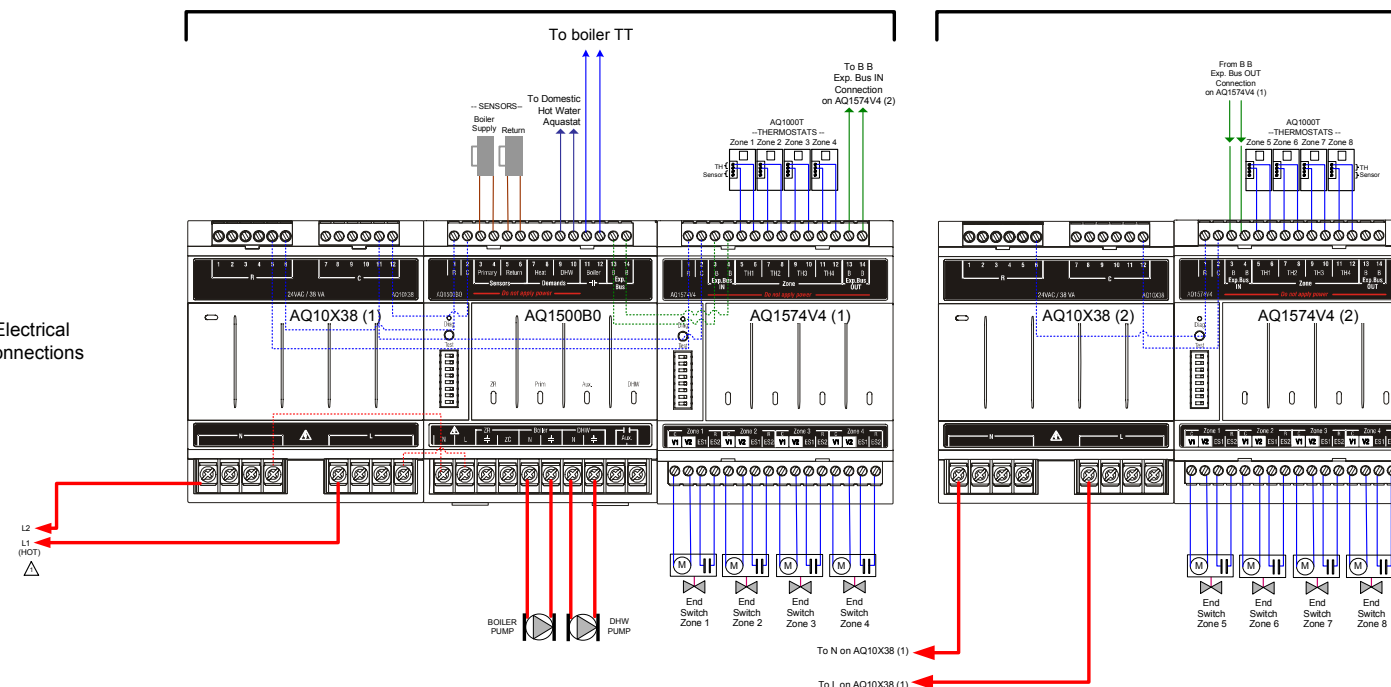
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AQ2504B4 + AQ2574V4

AQ2504B4

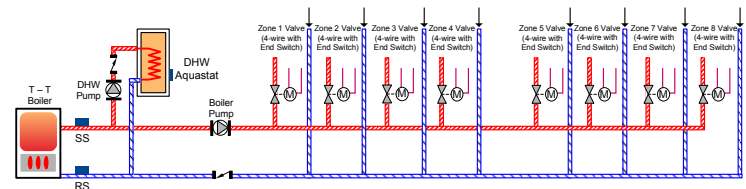
AQ2574V4

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2504B4	1
AQ2574V4	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043E/F	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

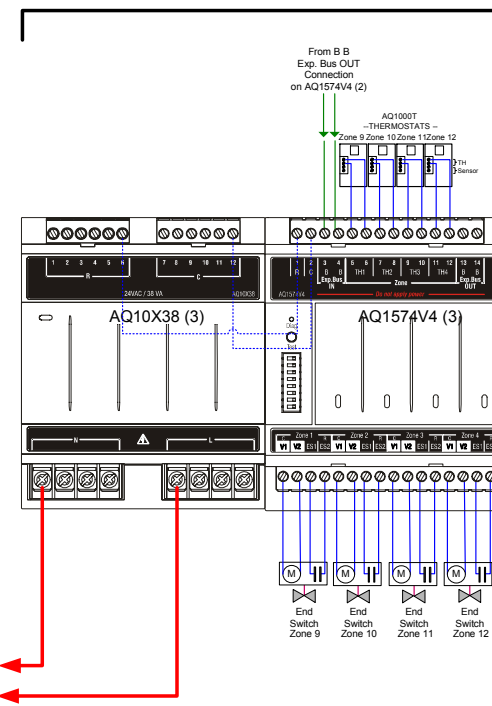
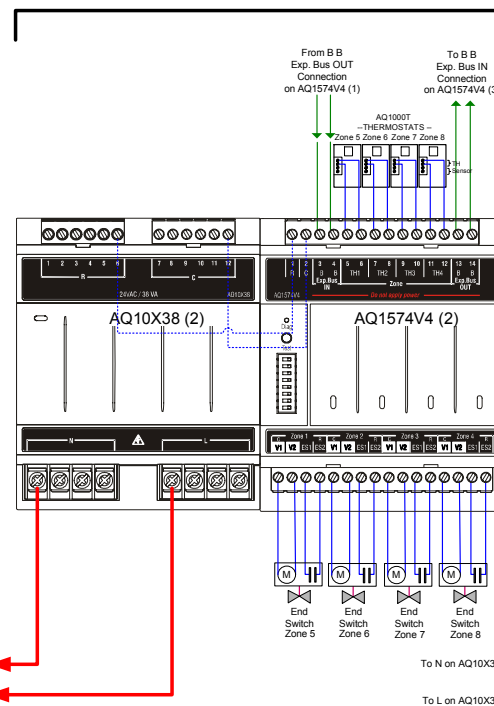
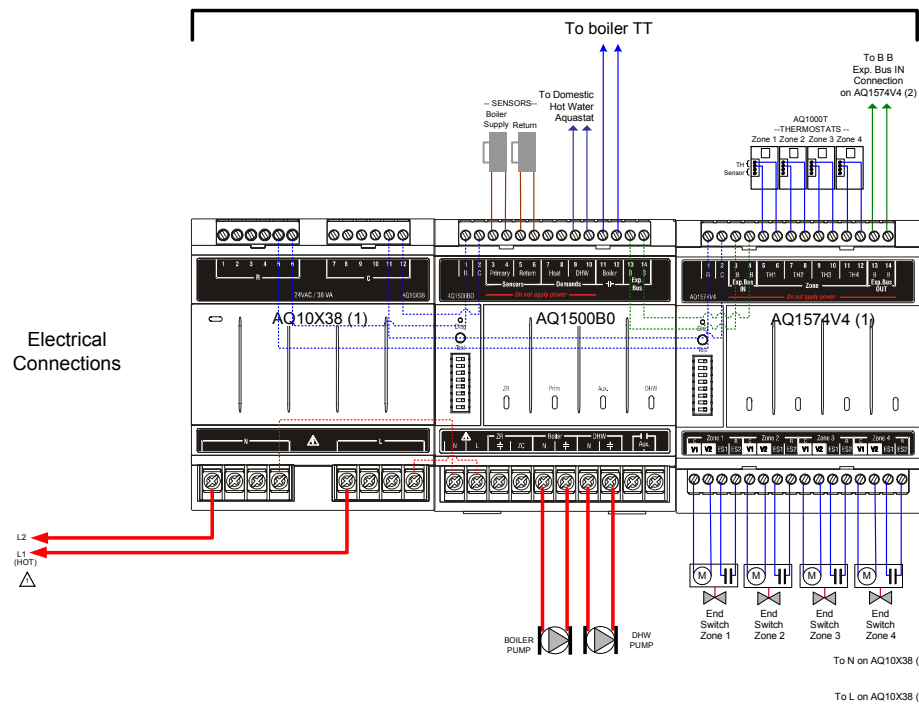
- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

AQ2504B4 + AQ2574V4 (2)

AQ2504B4

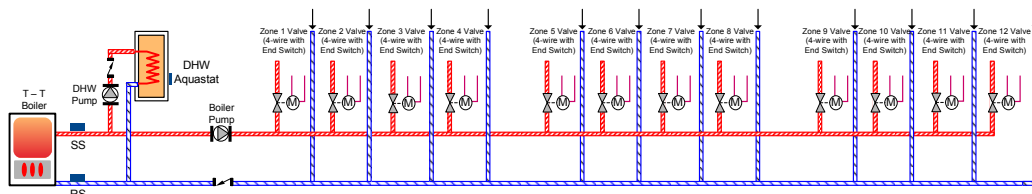
AQ2574V4

AQ2574V4



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- - - - - Factory Wiring (low voltage)
- - - - - Factory Wiring (line voltage)
- - - - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2504B4	1
AQ2574V4	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043E/F	12
DHW PUMP	1

Suggested Accessories Available from Honeywell:

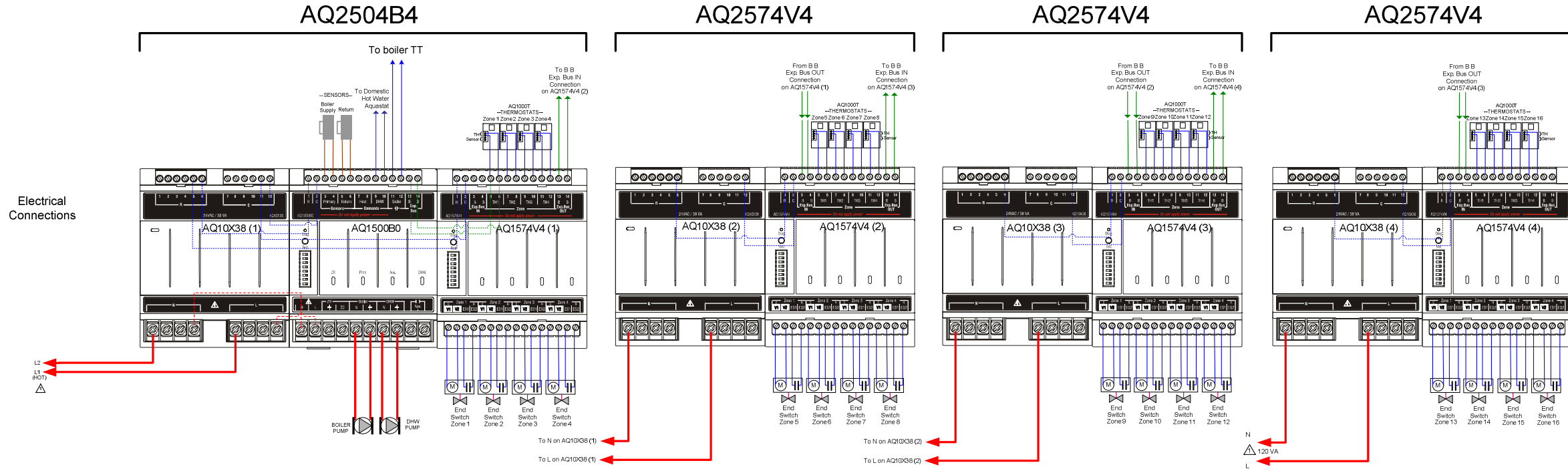
Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

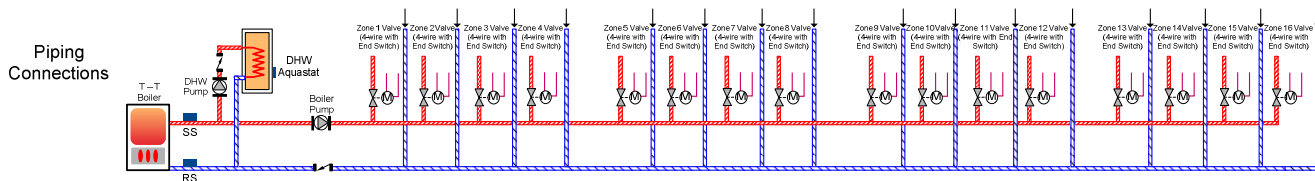
Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

AQ2504B4 + AQ2574V4 (3)



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.



Legend

- - - Factory Wiring (low voltage)
- . - . Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2504B4	1
AQ2574V4	3
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE VALVES - V8043E/F	16
DHW PUMP	1

Suggested Accessories Available from Honeywell:

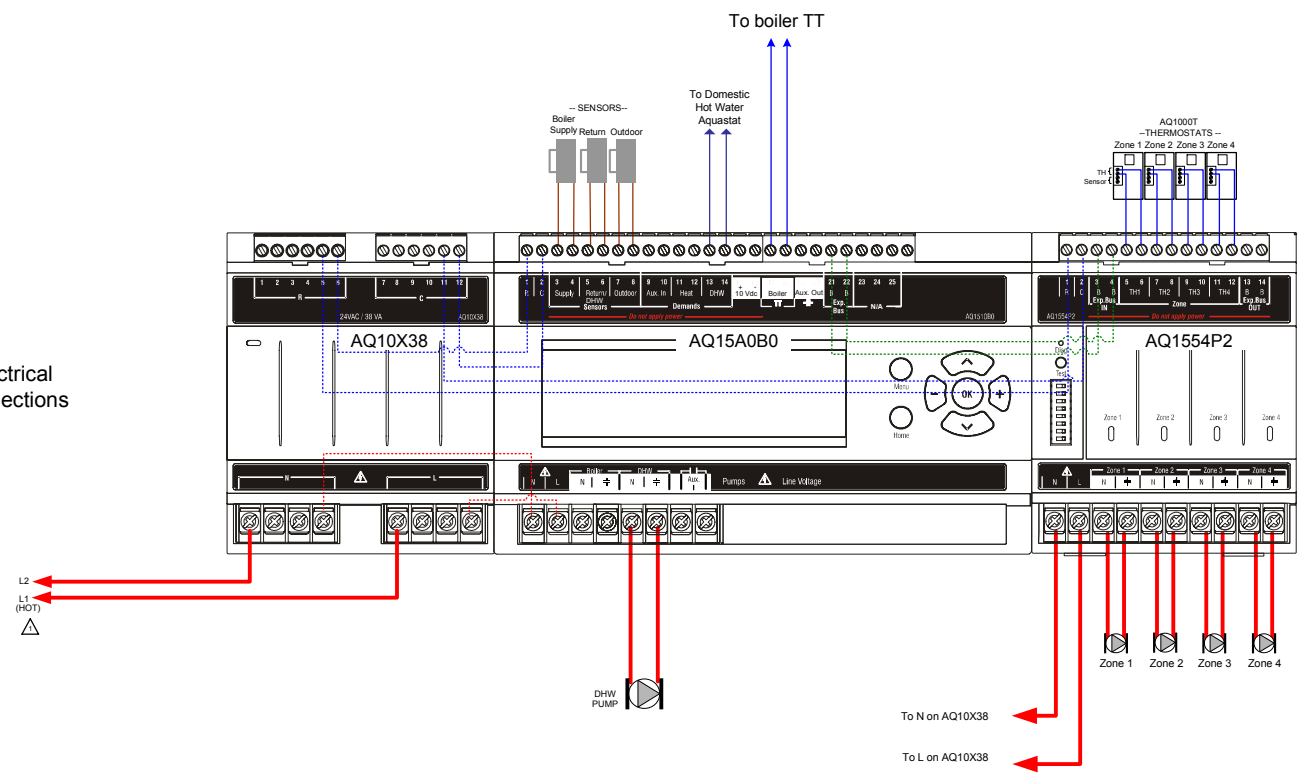
- | | |
|---|---------------------------|
| Hydronic Controls | Potable Controls |
| Air Eliminator | Thermostatic Mixing Valve |
| • PV Series | • AM Series |
| Expansion Tank or Combo Kit | • AMX Series |
| • TK Series | Pressure Reducing Valve |
| Boiler Fill Valve & Back Flow Preventer | • DS05 |
| • FM911 | • DS06 |
| Differential Pressure Regulator | |
| • D146 Series | |
| Radiant Mixing Valve | |
| • AM Radiant Series | |
| Supply/Return Manifolds | |
| • RM & SZ Series | |
| Ball Valves (Water Shutoff) | |
| • B200 Series | |

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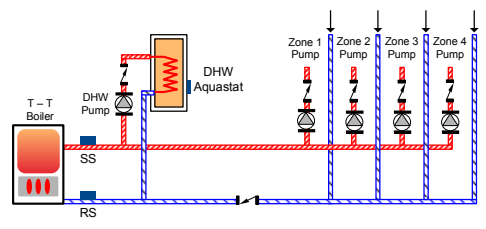
AQ25A4B2 (Pumps)

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ25A4B2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE PUMPS	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

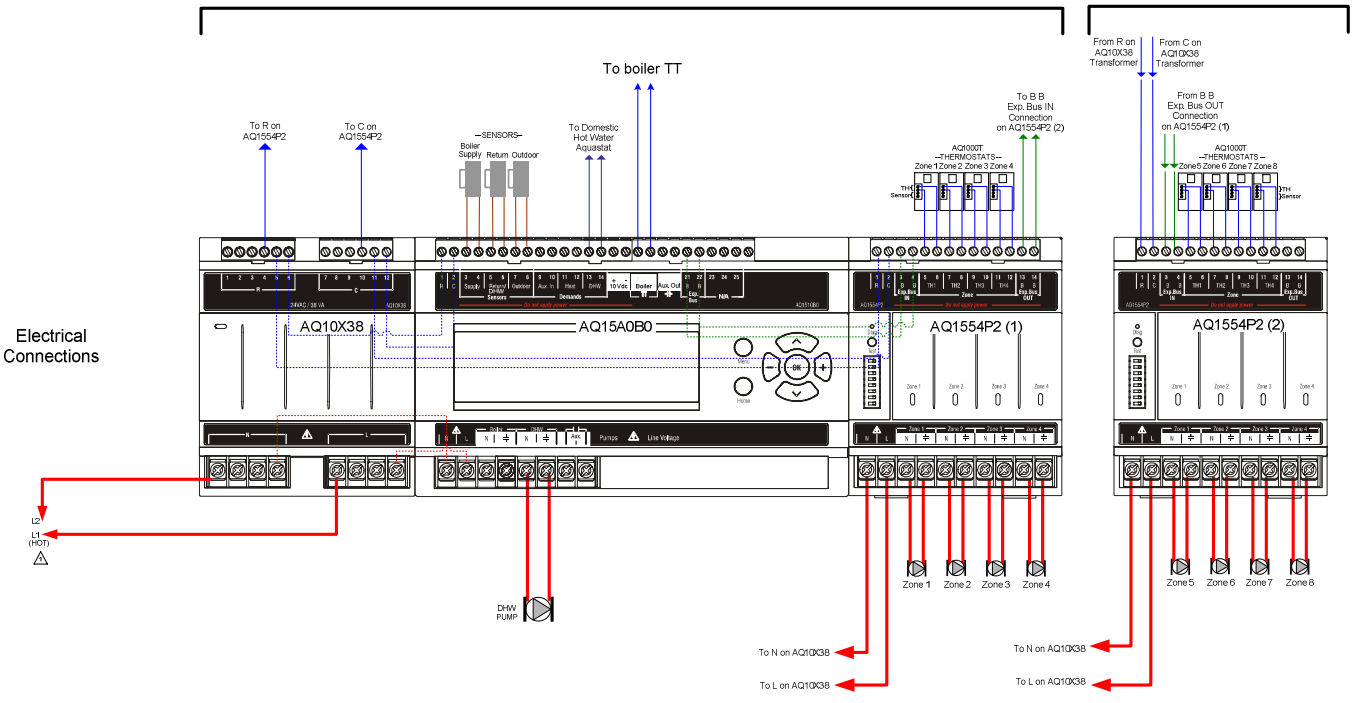
Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

AQ25A4B2 + AQ2554P2X

AQ25A4B2

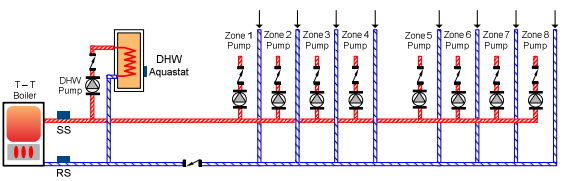
AQ2554P2X



Electrical Connections

△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- - - - - Factory Wiring (low voltage)
- - - - - Factory Wiring (line voltage)
- - - - - Factory Wiring (communication bus)
- — — — Field Wiring (low voltage)
- — — — Field Wiring (line voltage)
- — — — Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ25A4B2	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE PUMPS	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

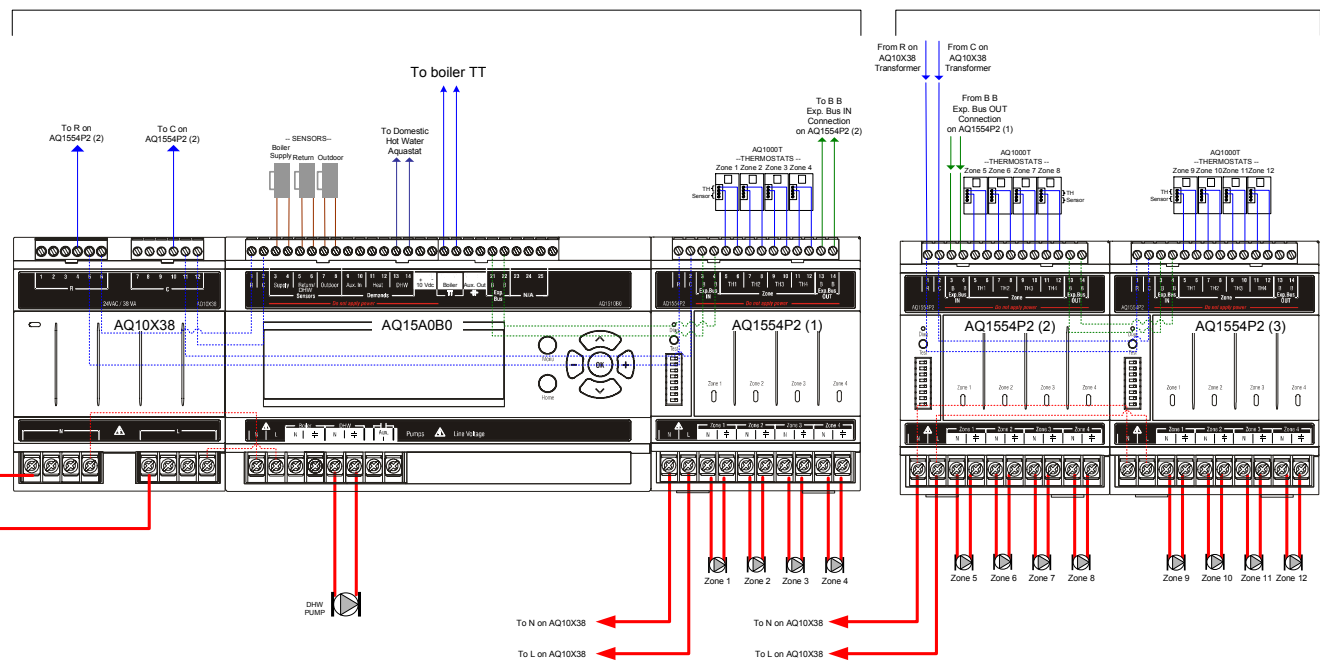
- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

AQ25A4B2 + AQ2558P2X

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AQ25A4B2

AQ2558P2X



Electrical Connections

BILL OF MATERIAL

Parts	Quantity
AQ25A4B2	1
AQ2558P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE PUMPS	12
DHW PUMP	1

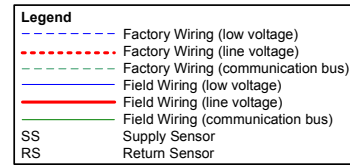
Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator*
 - PV Series
 - Expansion Tank or Combo Kit*
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer*
 - FM911
 - Differential Pressure Regulator*
 - D146 Series
 - Radiant Mixing Valve*
 - AM Radiant Series
 - Supply/Return Manifolds*
 - RM & SZ Series
 - Ball Valves (Water Shutoff)*
 - B200 Series

Potable Controls

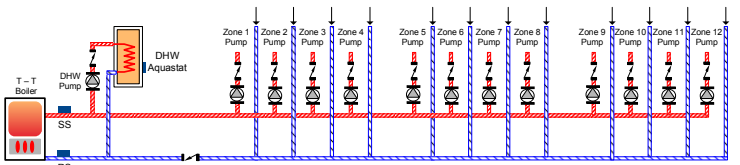
- Thermostatic Mixing Valve*
- AM Series
- AMX Series
- Pressure Reducing Valve*
- DS05
- DS06

△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.



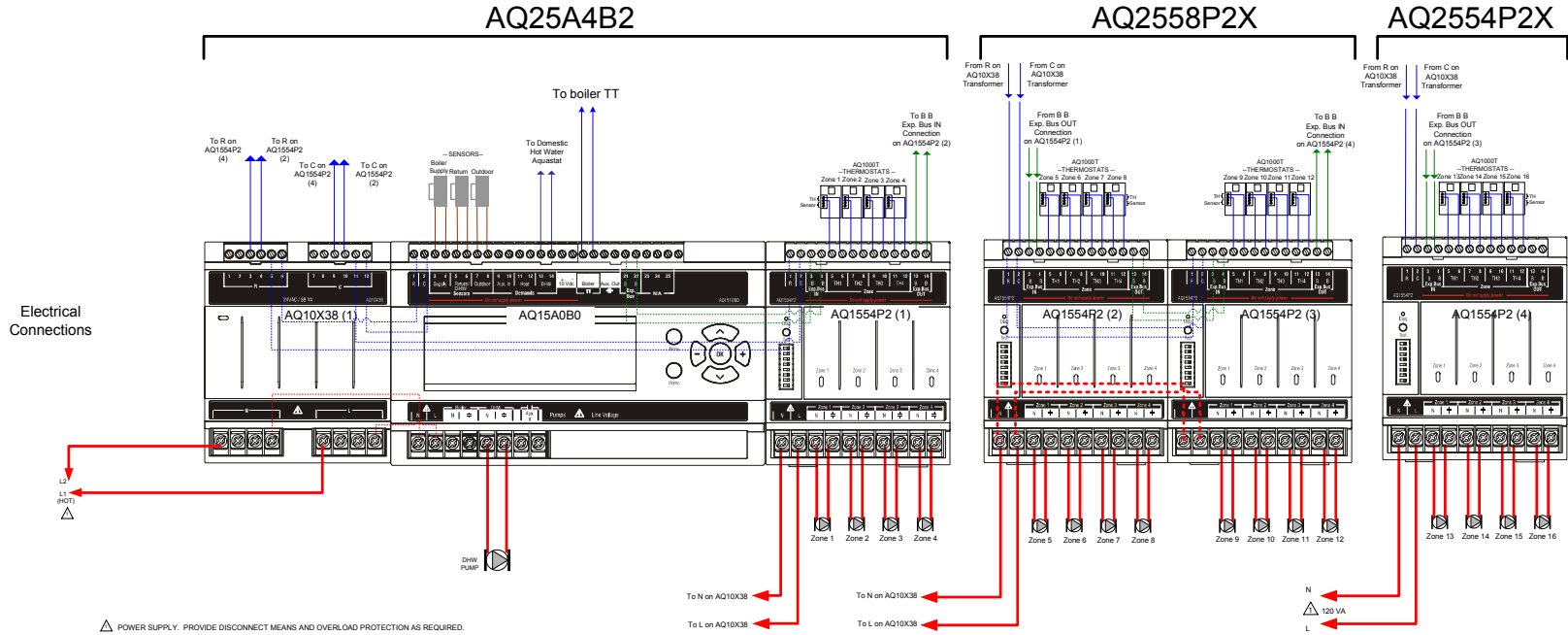
NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

Piping Connections

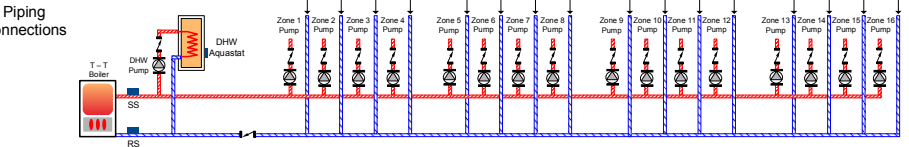


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To print on legal size paper, select Properties → Advanced under Paper Size, select Legal.

AQ25A4B2 + AQ2558P2X + AQ2554P2X



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.



Legend

- - - Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

V. 10

BILL OF MATERIAL

Parts	Quantity
AQ25A4B2	1
AQ2558P2X	1
AQ2554P2X	1
AQ1000T2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE PUMPS	16
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

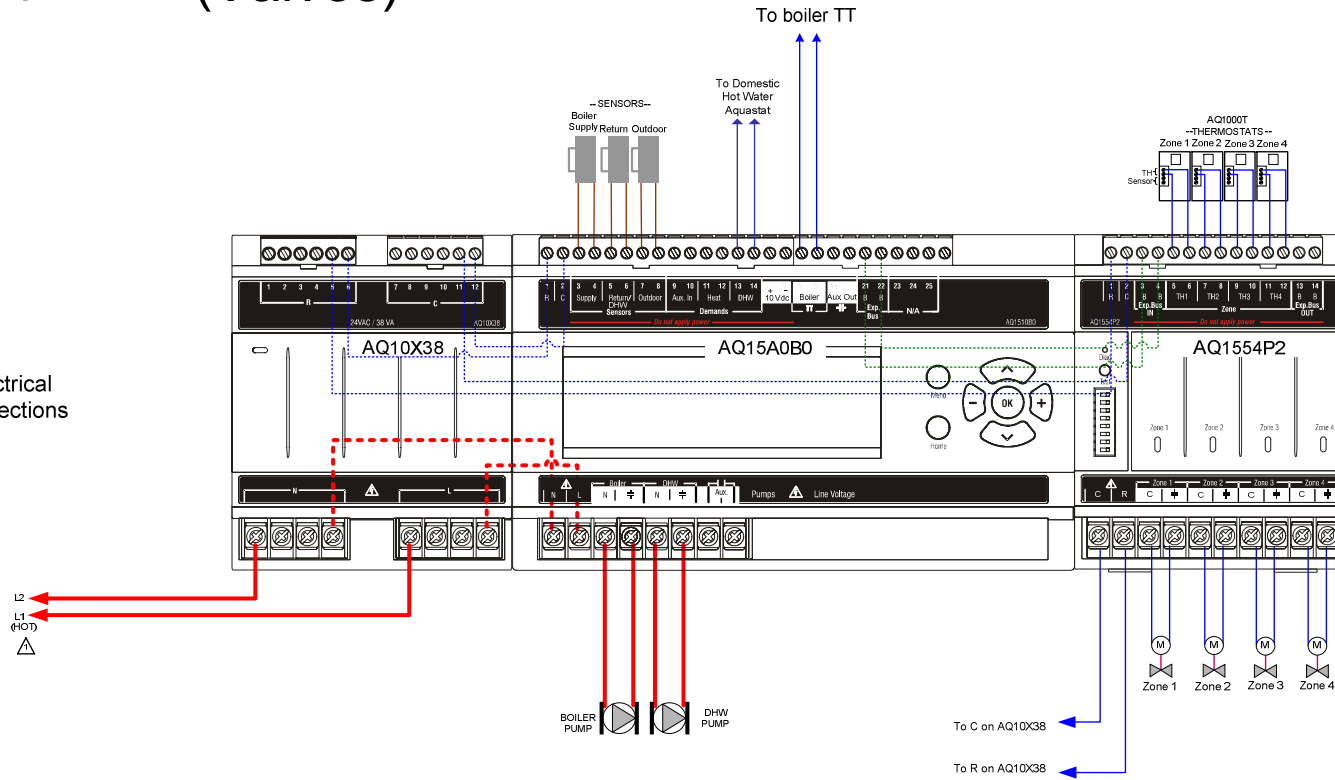
Portable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

Please select 'Current Page' to print single page.
To print on legal size paper, select Properties → Advanced under Paper Size, select Legal.

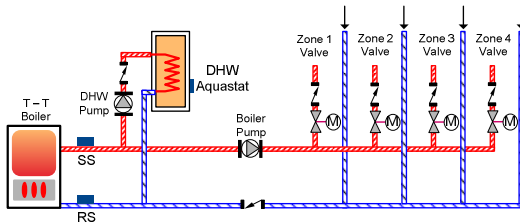
AQ25A4B2 (Valves)

Electrical Connections



△ POWER SUPPLY: PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043A	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

- Air Eliminator
 - PV Series
- Expansion Tank or Combo Kit
 - TK Series
- Boiler Fill Valve & Back Flow Preventer
 - FM911
- Differential Pressure Regulator
 - D146 Series
- Radiant Mixing Valve
 - AM Radiant Series
- Supply/Return Manifolds
 - RM & SZ Series
- Ball Valves (Water Shutoff)
 - B200 Series

Potable Controls

- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
- Pressure Reducing Valve
 - DS05
 - DS06

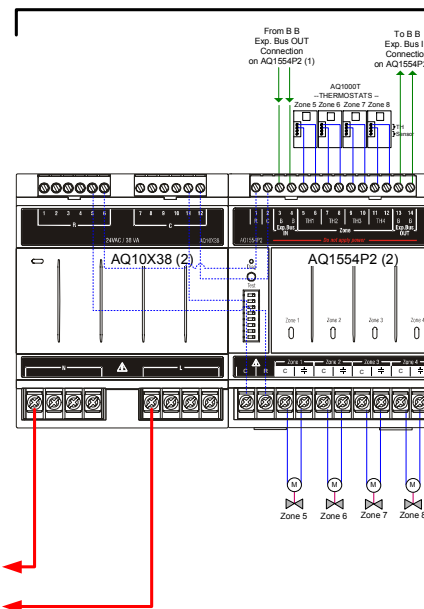
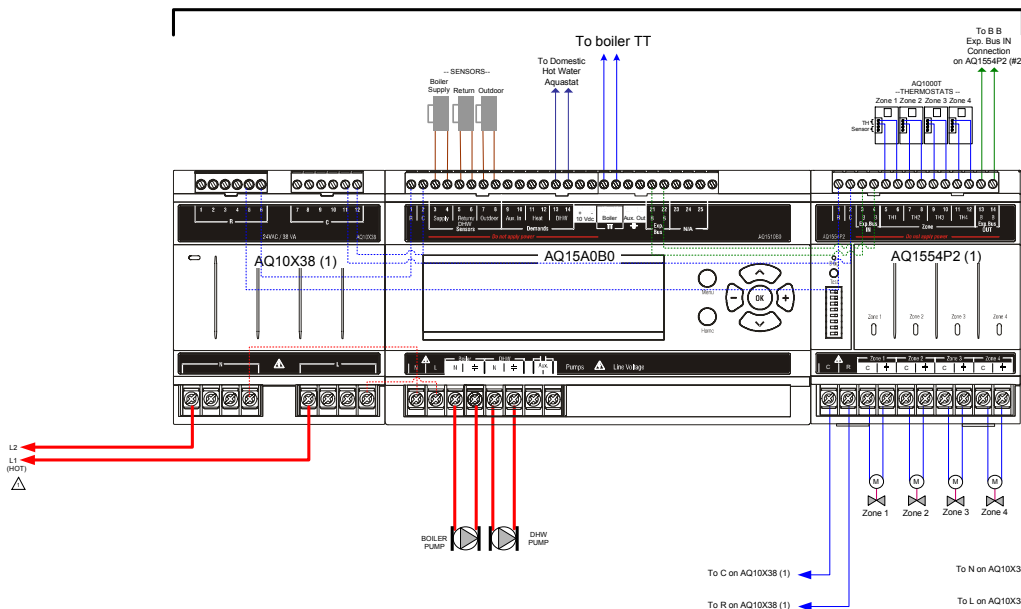
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AQ25A4B2 + AQ2554V2

AQ25A4B2

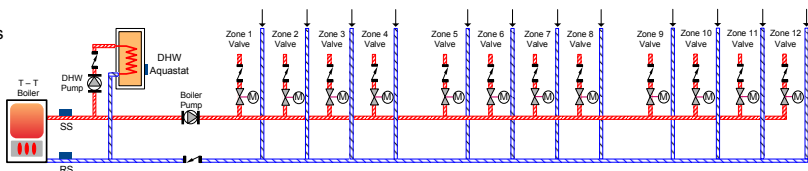
AQ2554V2

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ2554V2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043A	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

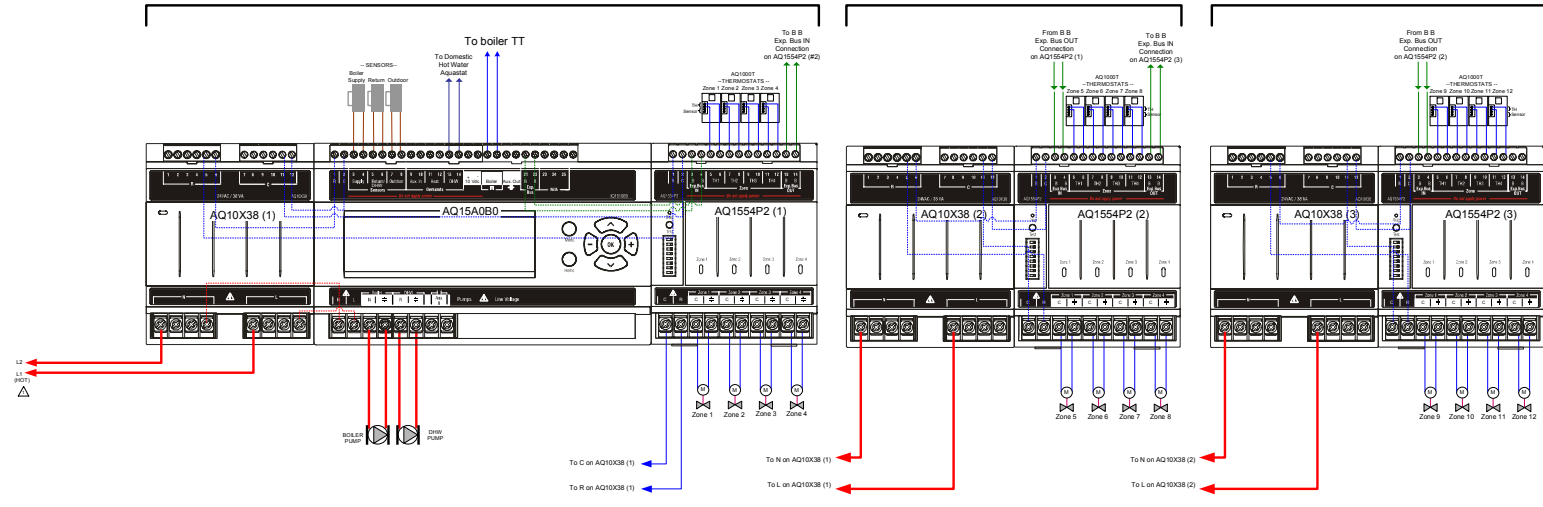
AQ25A4B2 + AQ2554V2 (2)

AQ25A4B2

AQ2554V2

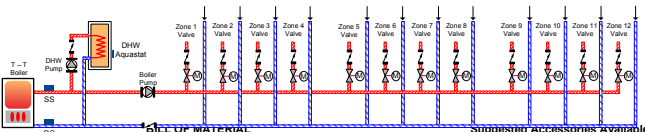
AQ2554V2

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED

Piping Connections



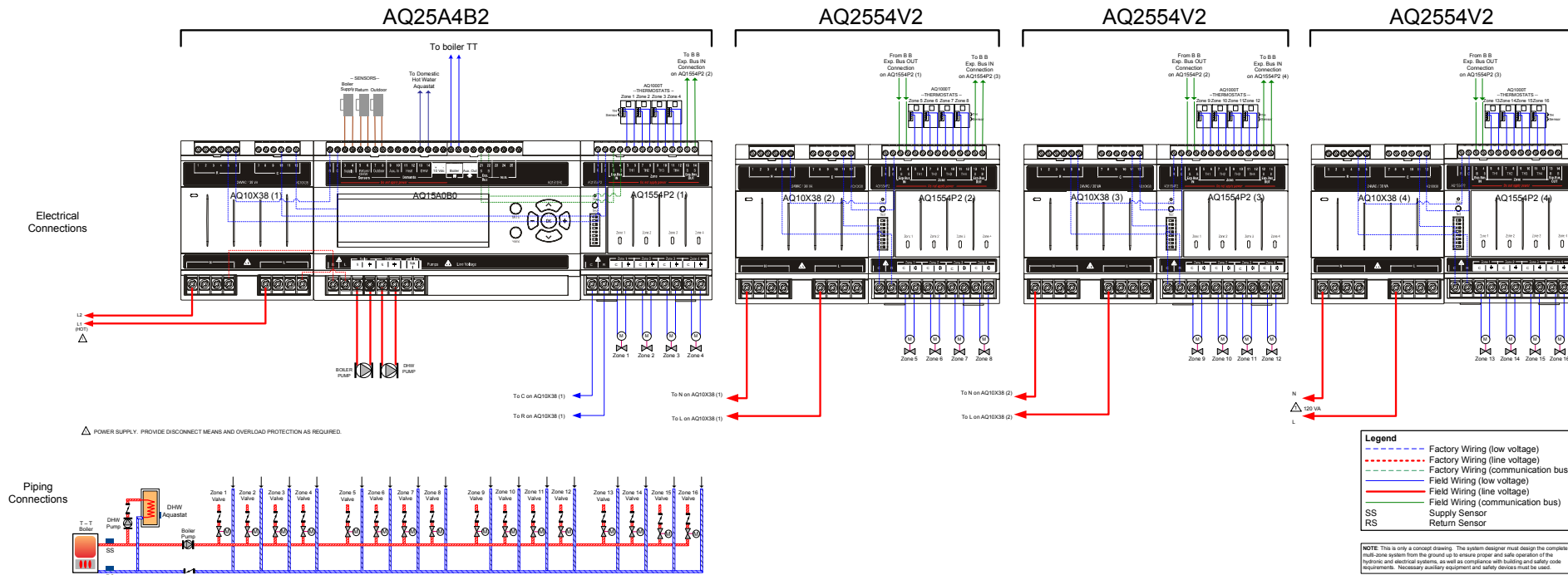
ALL MATERIAL		Suggested Accessories Available from Honeywell:	
Parts	Quantity	Hydronic Controls	Potable Controls
AQ25A4B2	1	Air Eliminator	Thermostatic Mixing Valve
AQ2554V2	2	• PV Series	• AM Series
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12	Expansion Tank or Combo Kit	• AMX Series
ZONE VALVES - V8043A	12	• TK Series	Pressure Reducing Valve
DHW PUMP	1	Boiler Fill Valve & Back Flow Preventer	• DS05
		• FM911	• DS06
		Differential Pressure Regulator	
		• D145 Series	
		Radiant Mixing Valve	
		• AM Radiant Series	
		Supply/Return Manifolds	
		• RM & SZ Series	
		Ball Valves (Water Shutoff)	
		• B200 Series	

Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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AQ25A4B2 + AQ2554V2 (3)



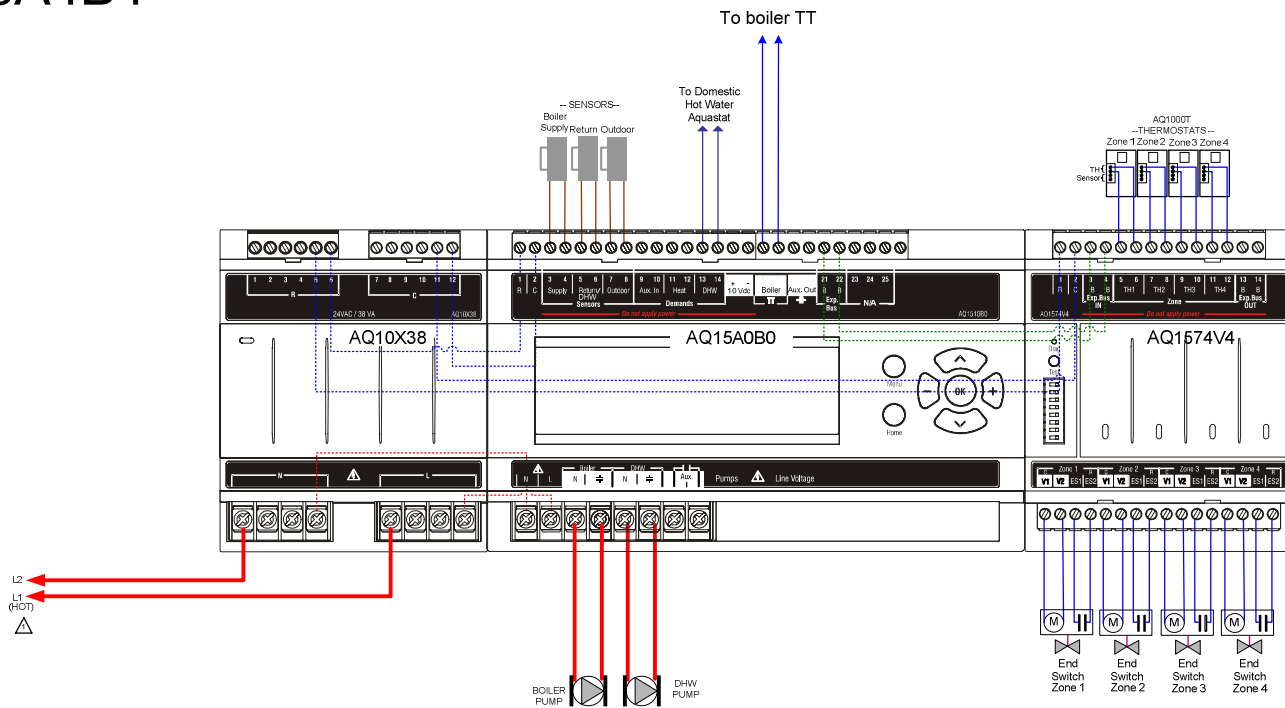
BILL OF MATERIAL		Suggested Accessories Available from Honeywell:	
Parts	Quantity	Hydronic Controls	Potable Controls
AQ25A4B2	1	Air Eliminator	Thermostatic Mixing Valve
AQ2554V2	3	• PV Series	• AM Series
AQ1000TN2 non-programmable or	16	Expansion Tank or Combo Kit	• AMX Series
AQ1000TP2 programmable thermostat	16	• TK Series	Pressure Reducing Valve
ZONE VALVES - V8043A	1	Boiler Fill Valve & Back Flow Preventer	• DS05
DHW PUMP	1	• FM911	• DS06
		Differential Pressure Regulator	
		• D146 Series	
		Radiant Mixing Valve	
		• AM Radiant Series	
		Supply/Return Manifolds	
		• RM & SZ Series	
		Ball Valves (Water Shutoff)	
		• B200 Series	

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AQ25A4B4

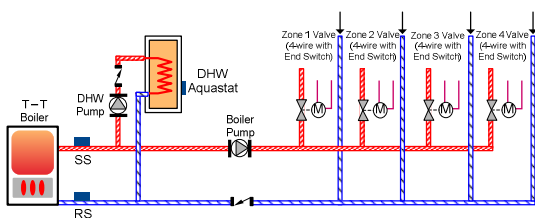
Electrical Connections



L2
L1 (HOT)
△

△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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Parts	Quantity
AQ25A4B4	1
AQ1000TN2 non-programmable or	
AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043E/F	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

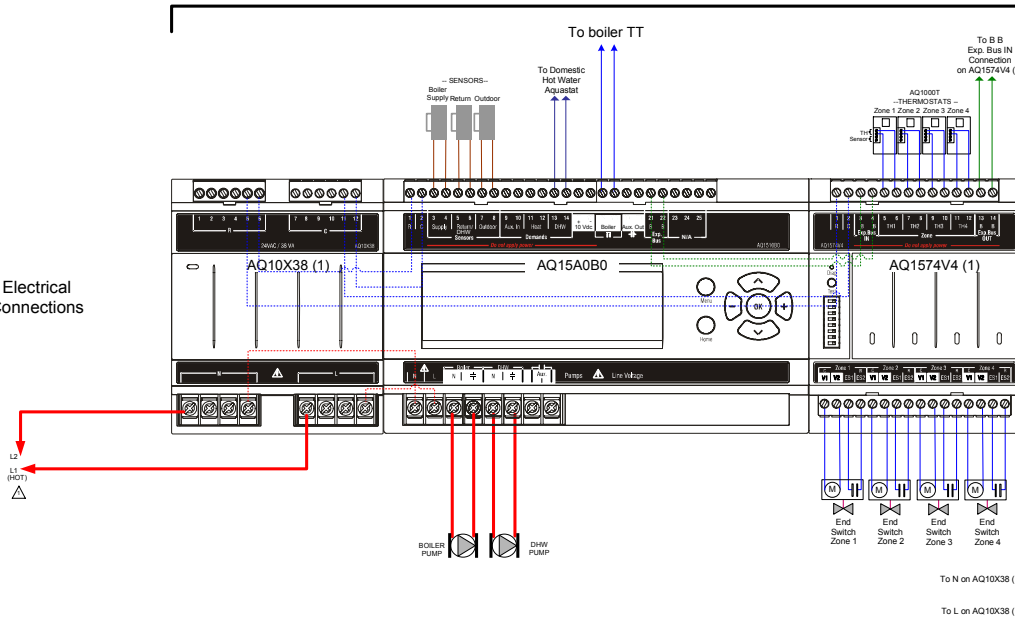
- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

AQ25A4B4 + AQ2574V4

AQ25A4B4

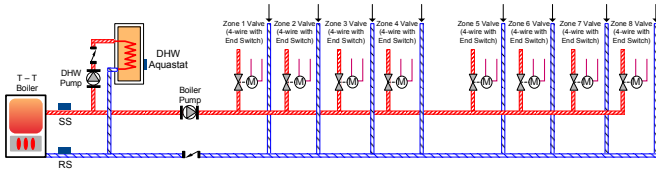
AQ2574V4

Electrical Connections



△ POWER SUPPLY: PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



To N on AQ10X38 (1)
 To L on AQ10X38 (1)

Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

V. 10

BILL OF MATERIAL

Parts	Quantity
AQ25A4B4	1
AQ2574V4	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043E/F	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

- Potable Controls**
- Thermostatic Mixing Valve
- AM Series
 - AMX Series
- Pressure Reducing Valve
- DS05
 - DS06

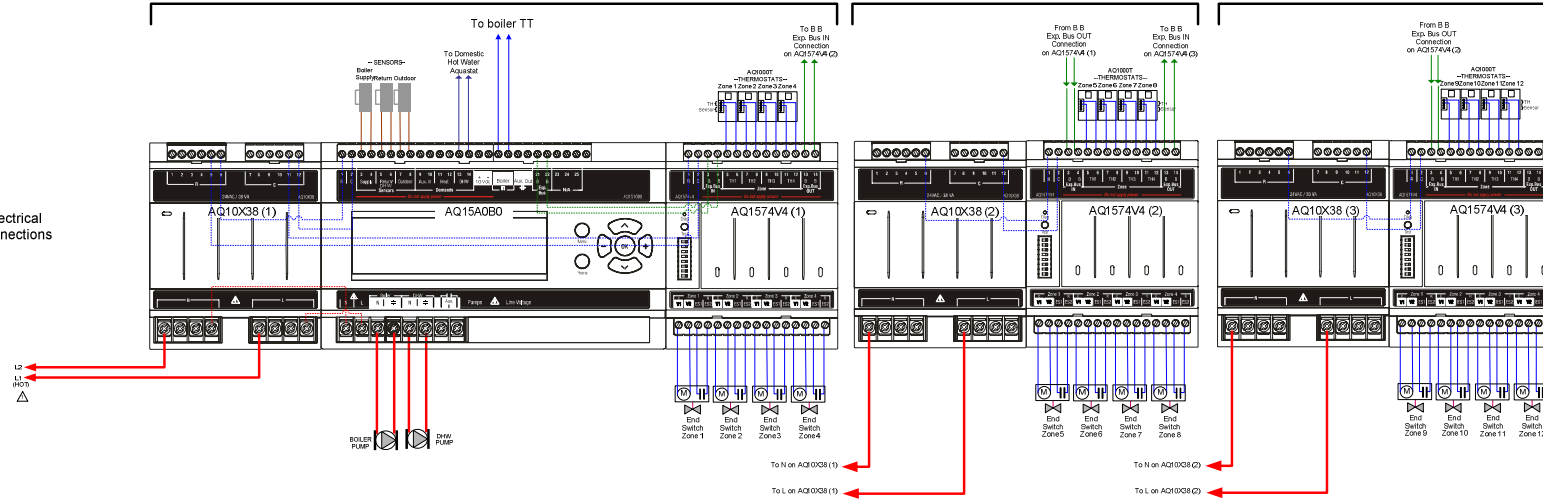
AQ25A4B4 + AQ2574V4 (2)

AQ25A4B4

AQ2574V4

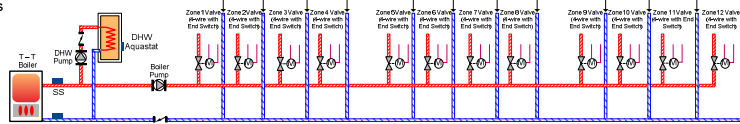
AQ2574V4

Electrical Connections



△ POWER SUPPLY: PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ25A4B4	1
AQ2574V4	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043E/F	12
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls	Potable Controls
Air Eliminator	Thermostatic Mixing Valve
• PV Series	• AM Series
Expansion Tank or Combo Kit	• AMX Series
• TK Series	Pressure Reducing Valve
Boiler Fill Valve & Back Flow Preventer	• DS05
• FM911	• DS06
Differential Pressure Regulator	
• D146 Series	
Radiant Mixing Valve	
• AM Radiant Series	
Supply/Return Manifolds	
• RM & SZ Series	
Ball Valves (Water Shutoff)	
• B200 Series	

AQ25A4B4 + AQ2574V4 (3)

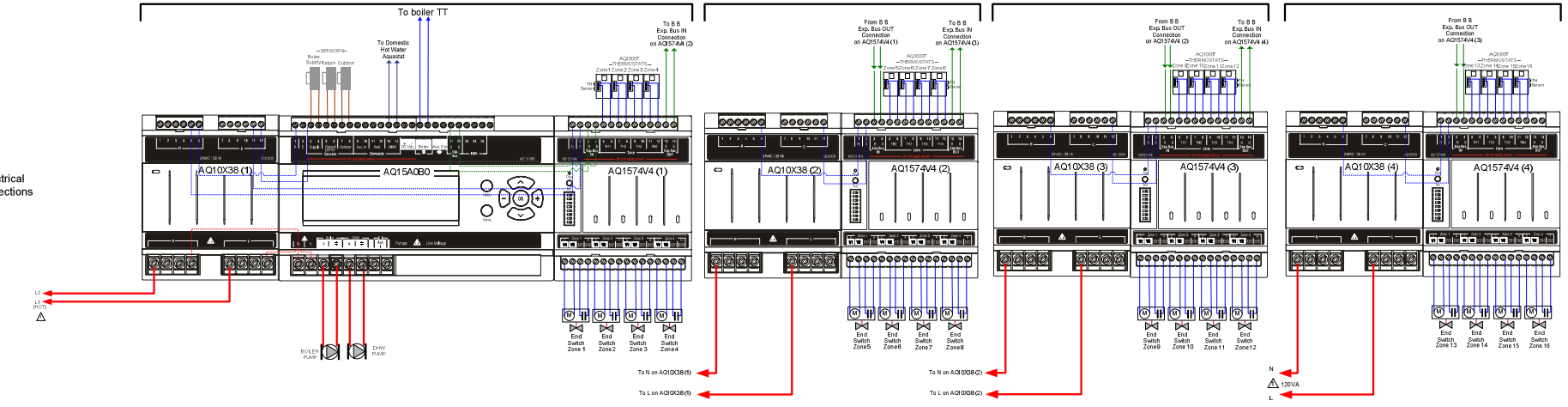
AQ25A4B4

AQ2574V4

AQ2574V4

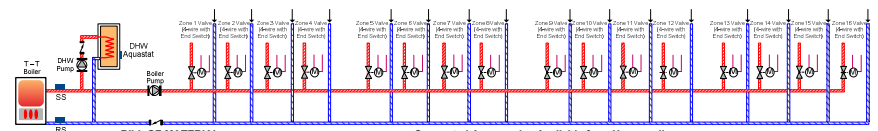
AQ2574V4

Electrical Connections



POWER SUPPLY: PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



BILL OF MATERIAL

Parts	Quantity
AQ2514B4	1
AQ2574V4	3
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE VALVES - V8043E/F	16
DHW PUMP	1

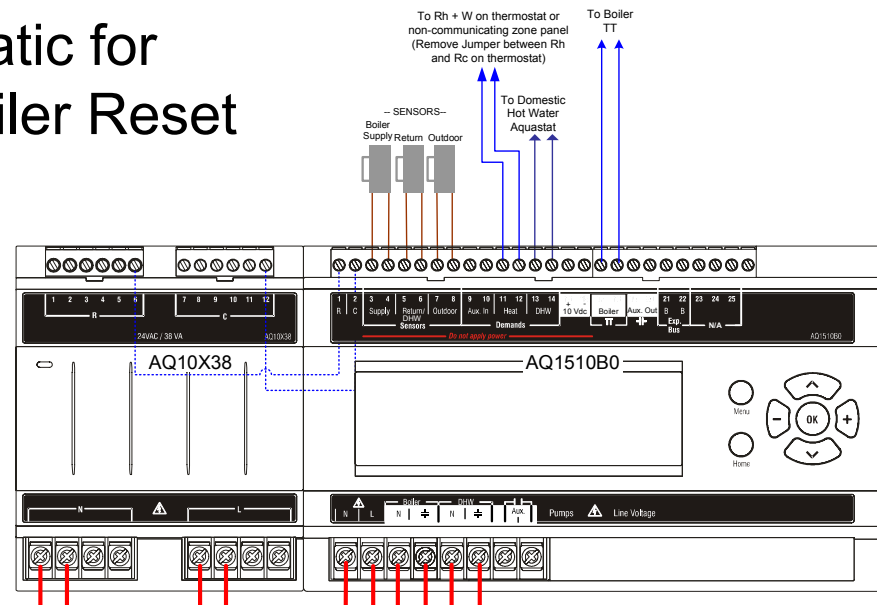
- Suggested Accessories Available from Honeywell:**
- | | |
|---|---------------------------|
| Hydronic Controls | Potable Controls |
| Air Eliminator | Thermostatic Mixing Valve |
| • PV Series | • AM Series |
| Expansion Tank or Combo Kit | • AMX Series |
| • TK Series | Pressure Reducing Valve |
| Boiler Fill Valve & Back Flow Preventer | • DS05 |
| • FM811 | • DS06 |
| Differential Pressure Regulator | |
| • D146 Series | |
| Radiant Mixing Valve | |
| • AM Radiant Series | |
| Supply/Return Manifolds | |
| • RM & SZ Series | |
| Ball Valves (Water Shutoff) | |
| • B200 Series | |

NOTE: This is only a concept drawing. The system designer must design the complete multibore system from the ground up to ensure proper and safe operation of the hydronic and electrical systems as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

Wiring Schematic for AQ2511B0 Boiler Reset Panel

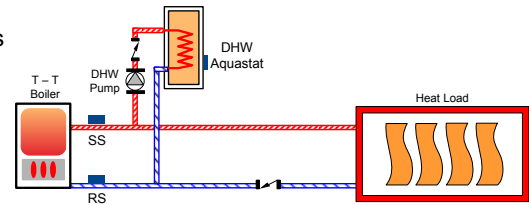
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Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

V. 10

BILL OF MATERIAL

Parts	Quantity
AQ10X38	1
AQ1510B0	1
DHW PUMP	1

Suggested Accessories Available from Honeywell:

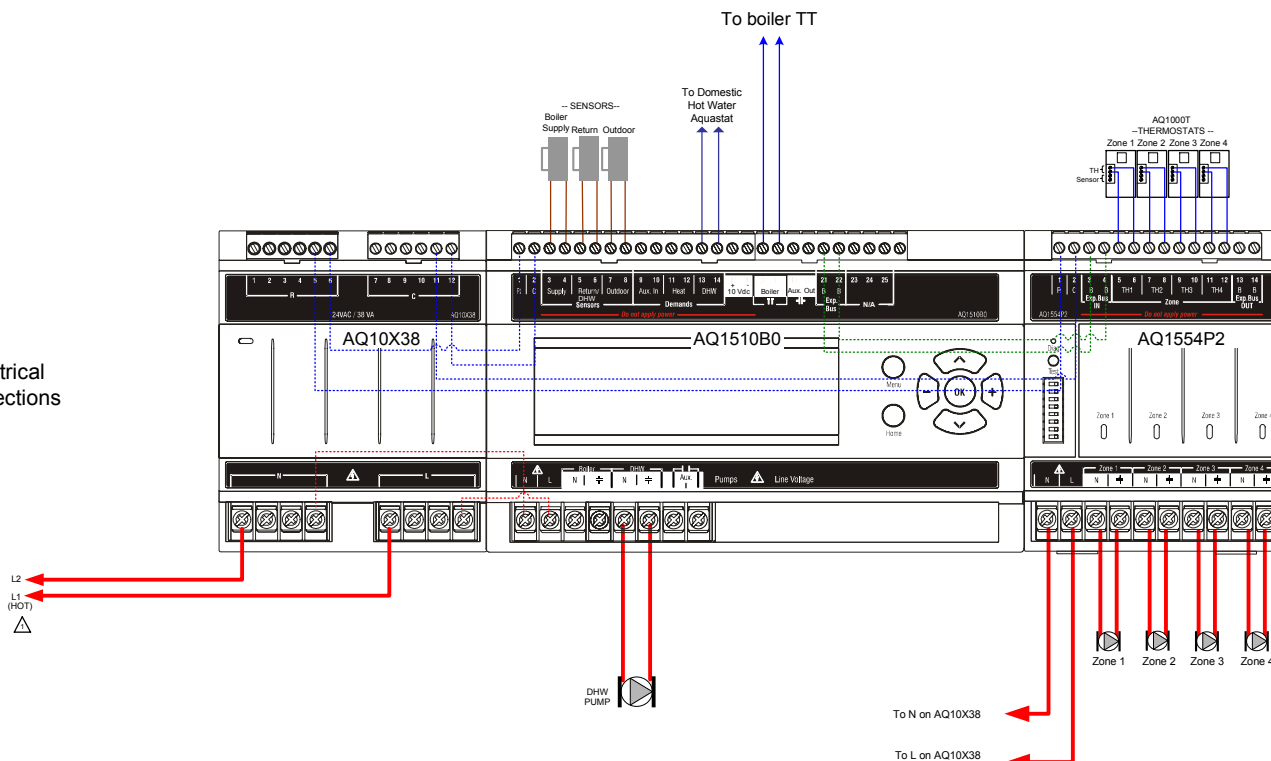
- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series
- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

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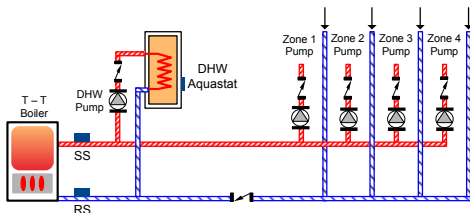
AQ2514B2 (Pumps)

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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V. 10

BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE PUMPS	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

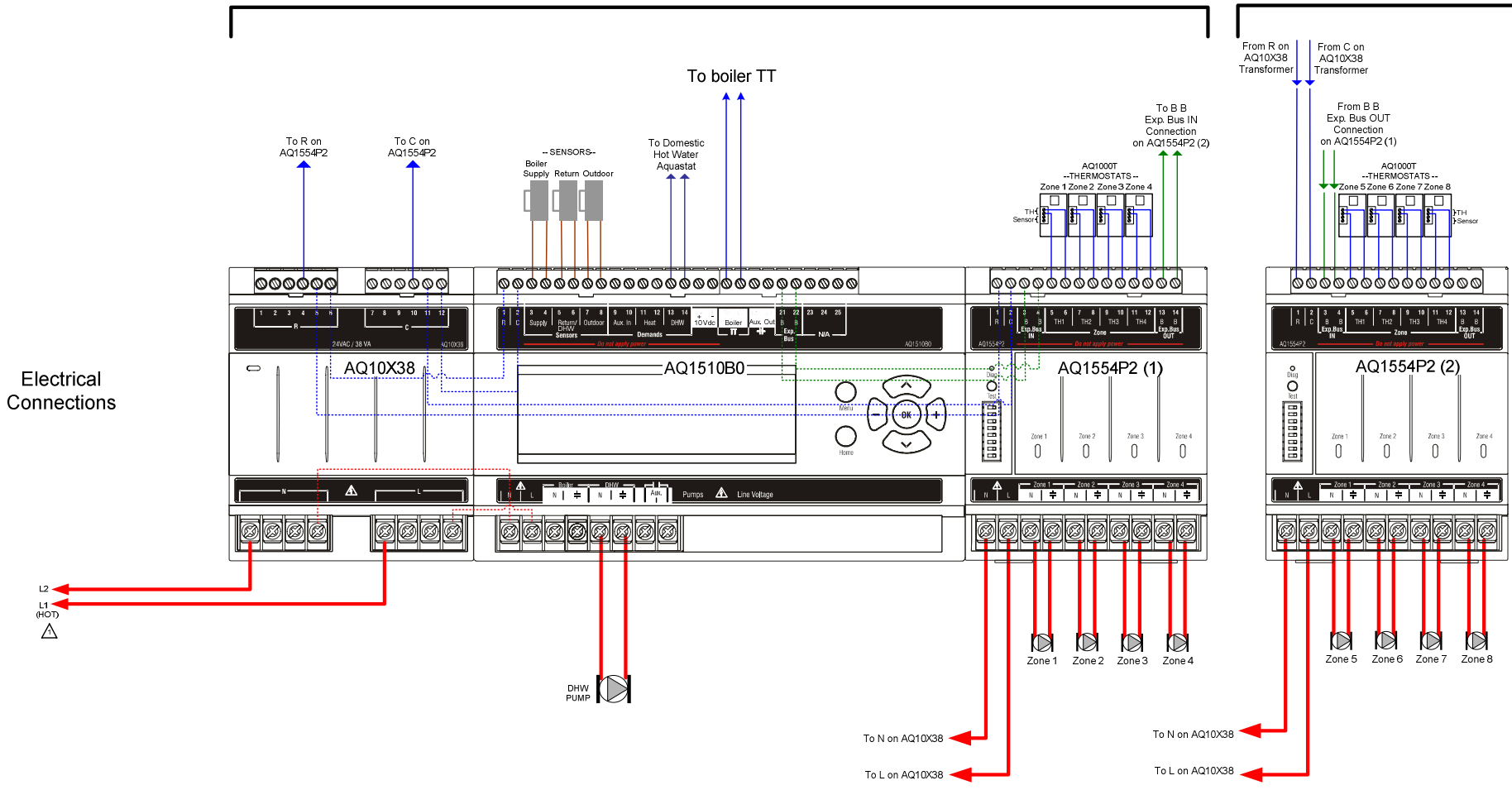
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AQ2514B2 + AQ2554P2X

AQ2514B2

AQ2554P2X



BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE PUMPS	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

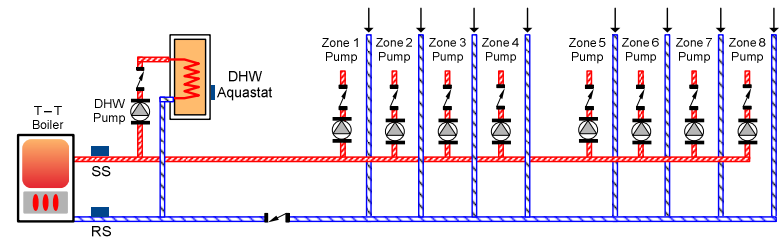
- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

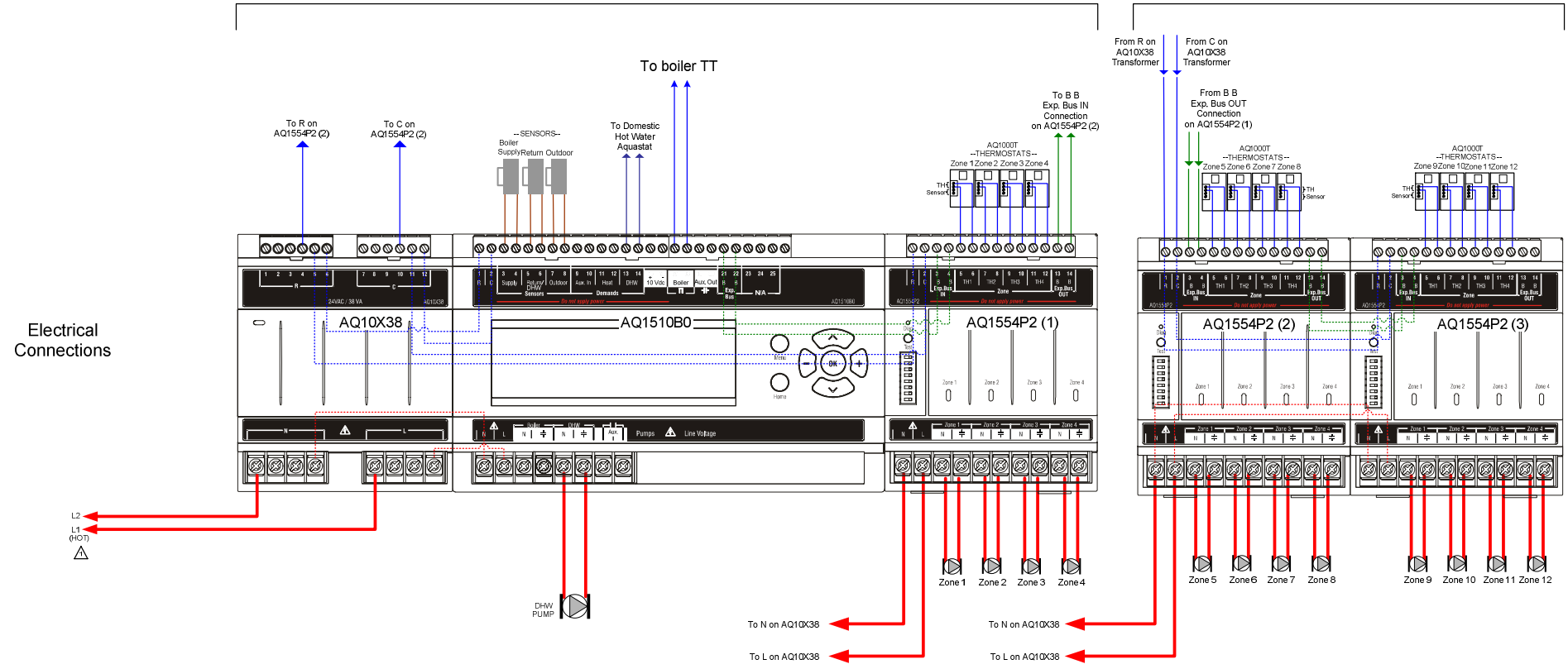
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AQ2514B2 + AQ2558P2X

AQ2514B2

AQ2558P2X



BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ2558P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE PUMPS	12
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

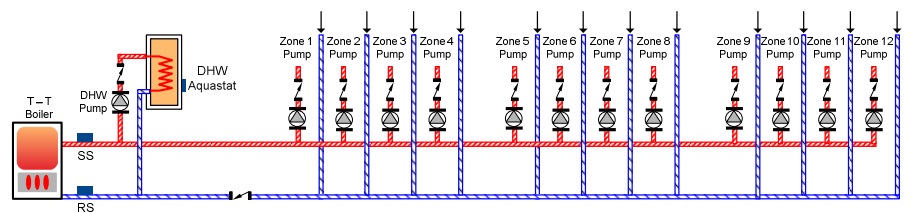
- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

Legend

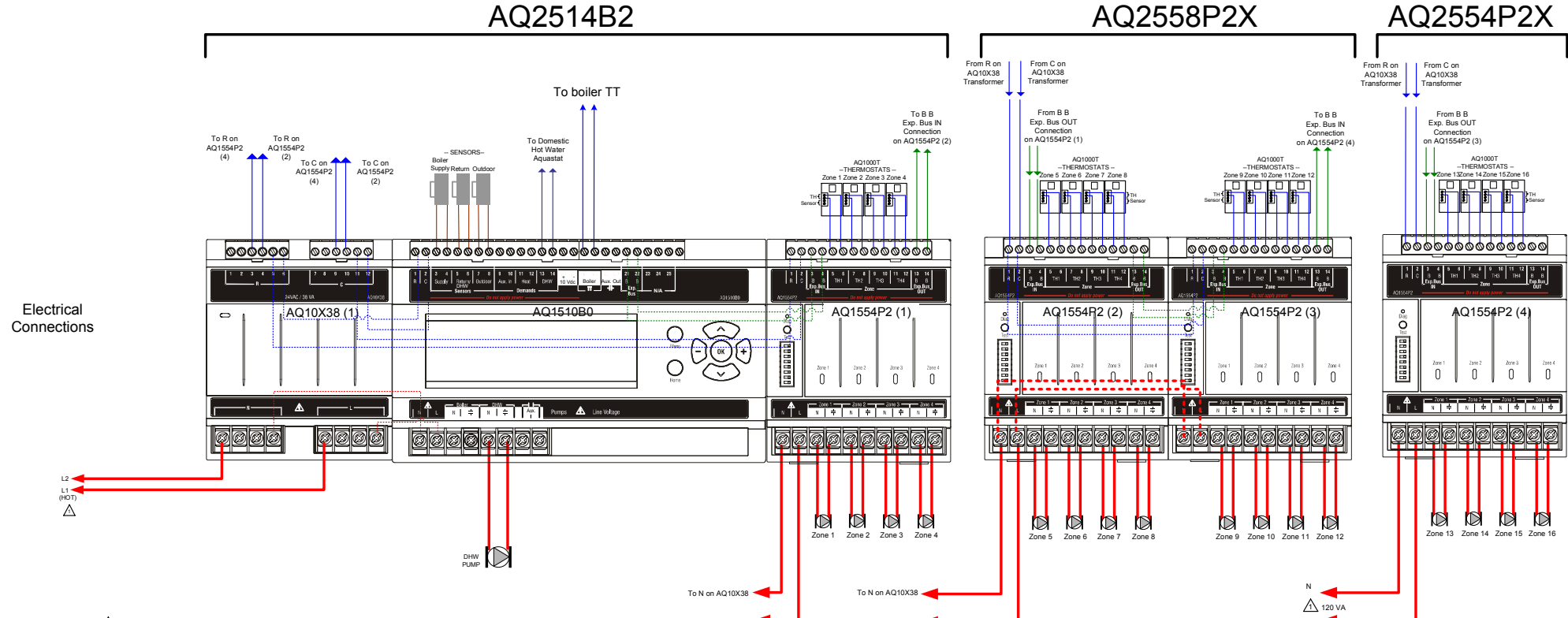
- Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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Piping Connections



AQ2514B2 + AQ2558P2X + AQ2554P2X



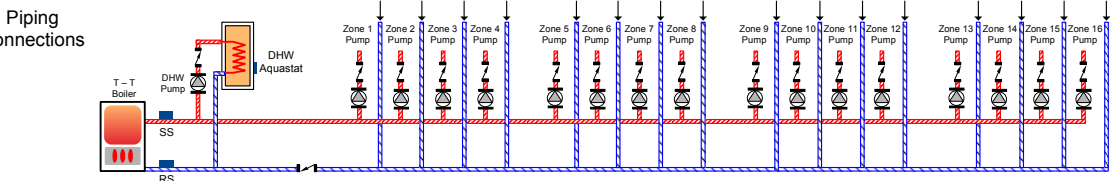
BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ2558P2X	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE PUMPS	16
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06



Legend

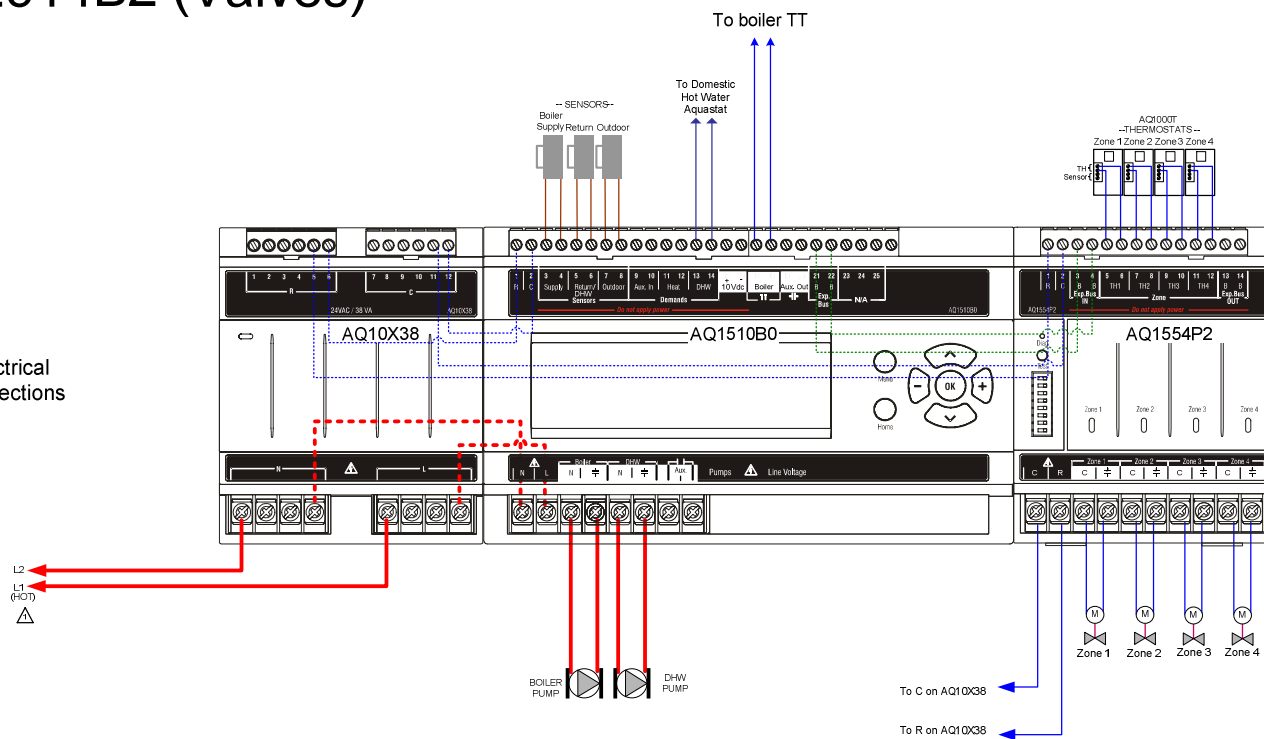
- Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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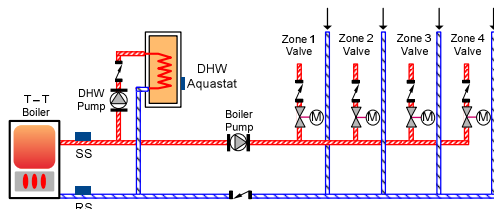
AQ2514B2 (Valves)

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- - - - - Factory Wiring (low voltage)
- - - - - Factory Wiring (line voltage)
- - - - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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V. 10

BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043A	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

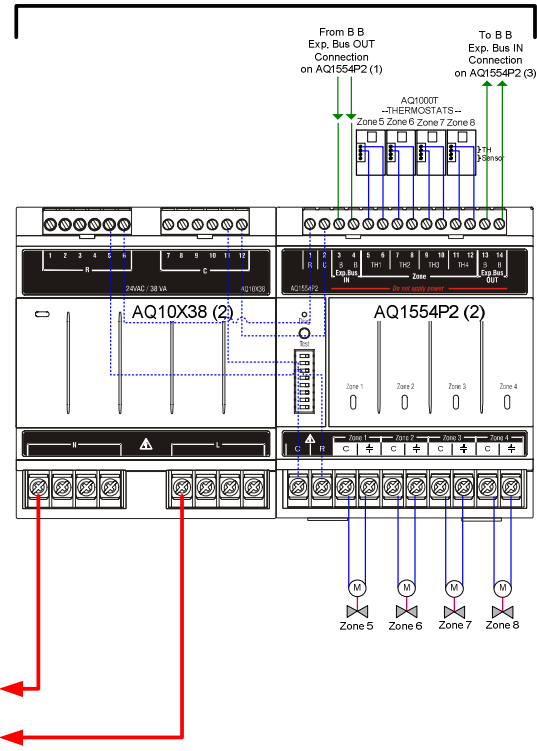
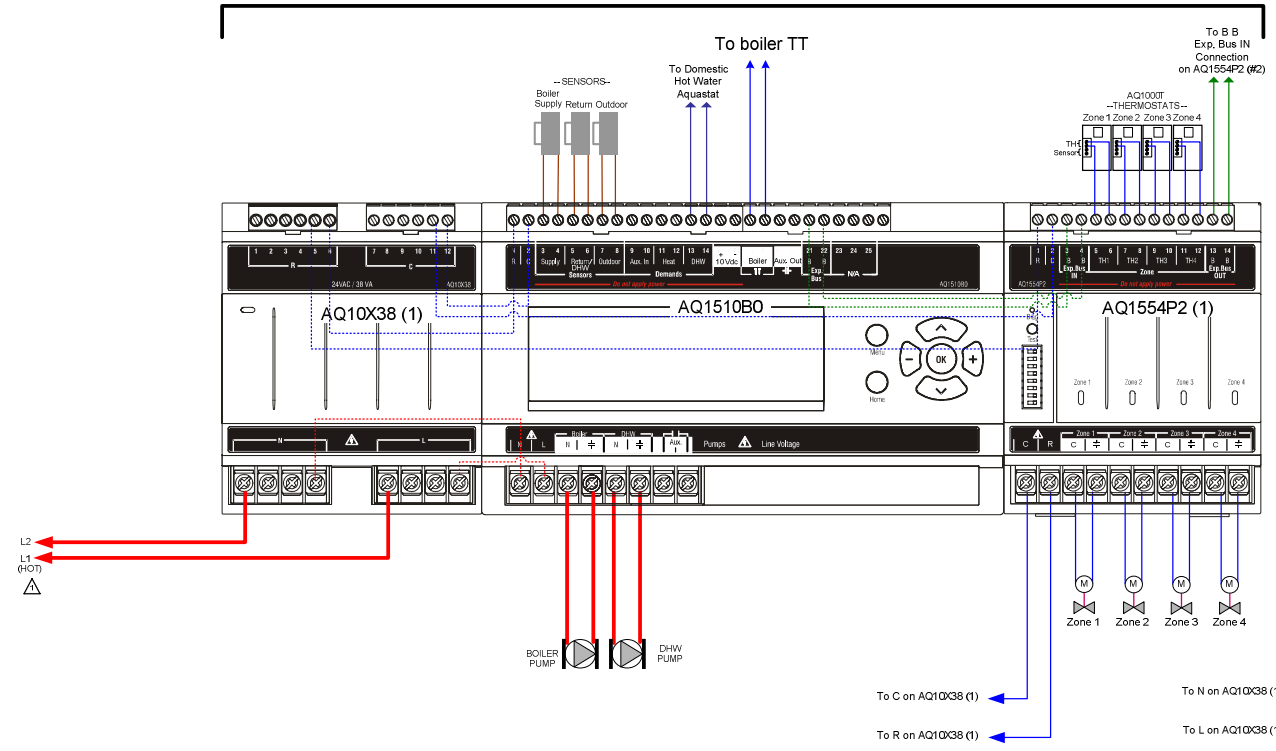
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AQ2514B2 + AQ2554V2

AQ2514B2

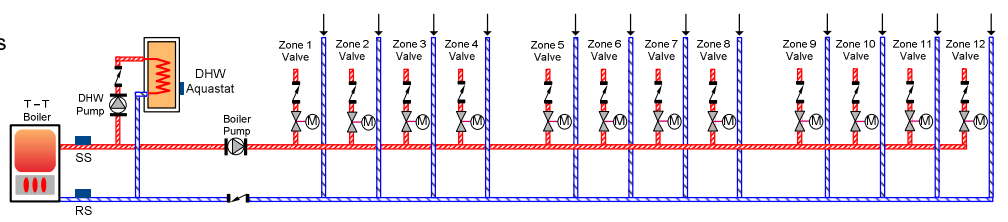
AQ2554V2

Electrical Connections



⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ2554V2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043A	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

- Portable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

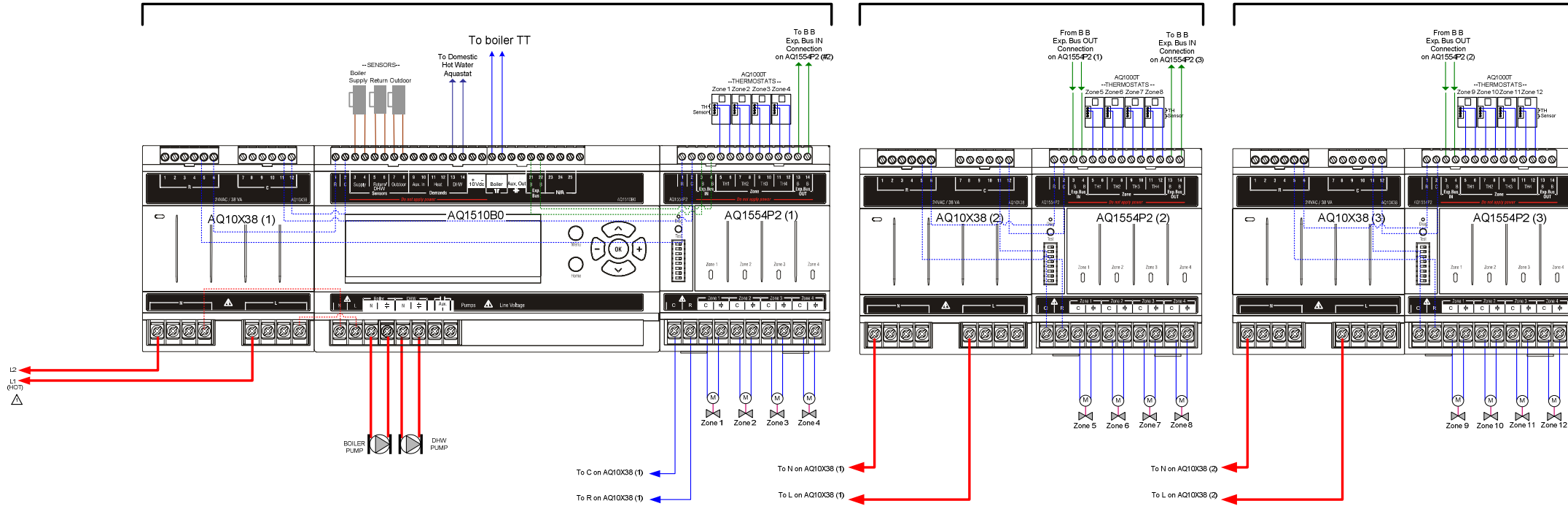
AQ2514B2 + AQ2554V2 (2)

AQ2514B2

AQ2554V2

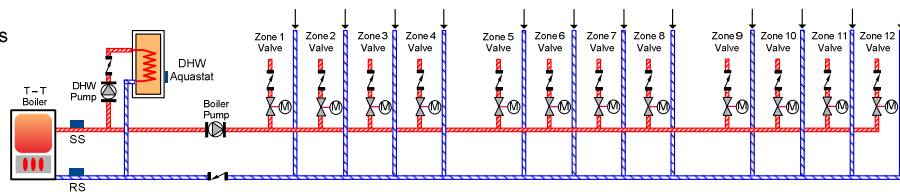
AQ2554V2

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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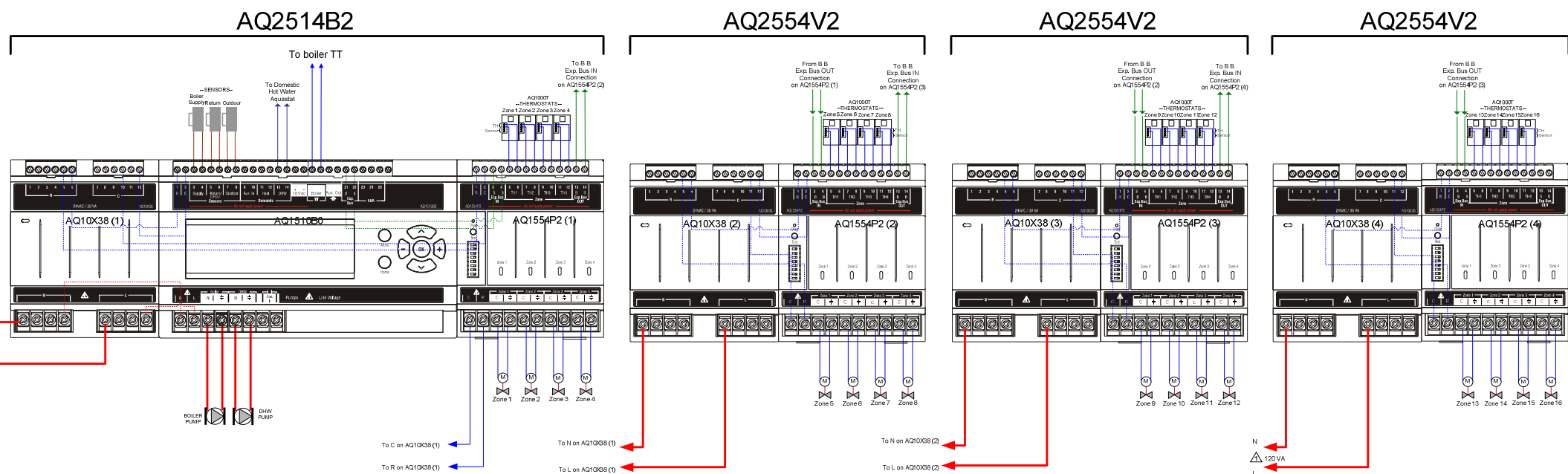
BILL OF MATERIAL

Parts	Quantity
AQ2514B2	1
AQ2554V2	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043A	12
DHW PUMP	1

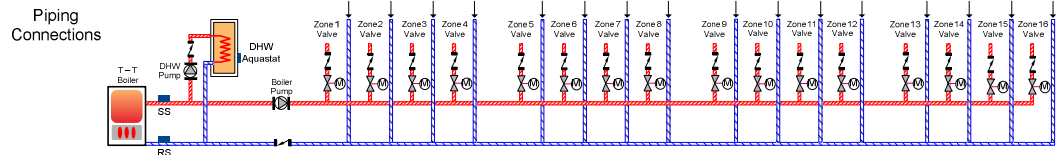
Suggested Accessories Available from Honeywell:

Hydronic Controls	Potable Controls
Air Eliminator	Thermostatic Mixing Valve
• PV Series	• AM Series
Expansion Tank or Combo Kit	• AMX Series
• TK Series	Pressure Reducing Valve
Boiler Fill Valve & Back Flow Preventer	• DS05
• FM911	• DS06
Differential Pressure Regulator	
• D146 Series	
Radiant Mixing Valve	
• AM Radiant Series	
Supply/Return Manifolds	
• RM & SZ Series	
Ball Valves (Water Shutoff)	
• B200 Series	

AQ2514B2 + AQ2554V2 (3)



POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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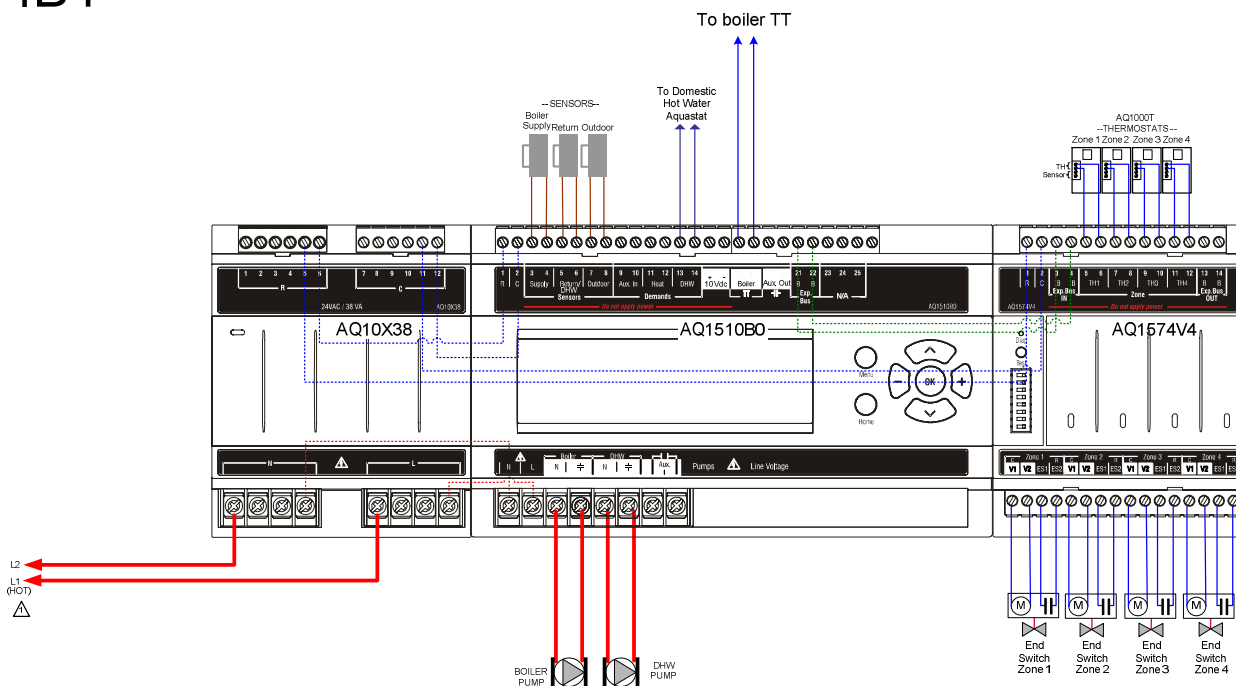
BILL OF MATERIAL		Suggested Accessories Available from Honeywell:	
Parts	Quantity	Hydronic Controls	Potable Controls
AQ2514B2	1	Air Eliminator	Thermostatic Mixing Valve
AQ2554V2	3	• PV Series	• AM Series
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16	Expansion Tank or Combo Kit	• AMX Series
ZONE VALVES - V8043A	16	• TK Series	Pressure Reducing Valve
DHW PUMP	1	Boiler Fill Valve & Back Flow Preventer	• DS05
		• FM911	• DS06
		Differential Pressure Regulator	
		• D146 Series	
		Radiant Mixing Valve	
		• AM Radiant Series	
		Supply/Return Manifolds	
		• RM & SZ Series	
		Ball Valves (Water Shutoff)	
		• B200 Series	

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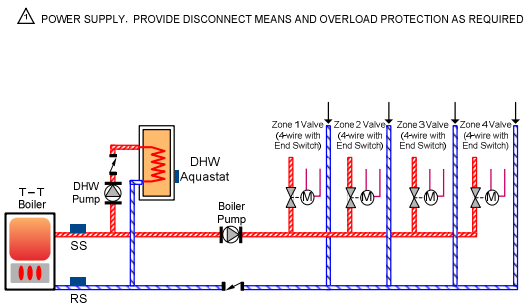
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AQ2514B4

Electrical Connections



Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2514B4	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043E/F	4
DHW PUMP	1

Suggested Accessories Available from Honeywell:

- Hydronic Controls**
- Air Eliminator*
 - PV Series
 - Expansion Tank or Combo Kit*
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer*
 - FM911
 - Differential Pressure Regulator*
 - D146 Series
 - Radiant Mixing Valve*
 - AM Radiant Series
 - Supply/Return Manifolds*
 - RM & SZ Series
 - Ball Valves (Water Shutoff)*
 - B200 Series

- Potable Controls**
- Thermostatic Mixing Valve*
 - AM Series
 - AMX Series
 - Pressure Reducing Valve*
 - DS05
 - DS06

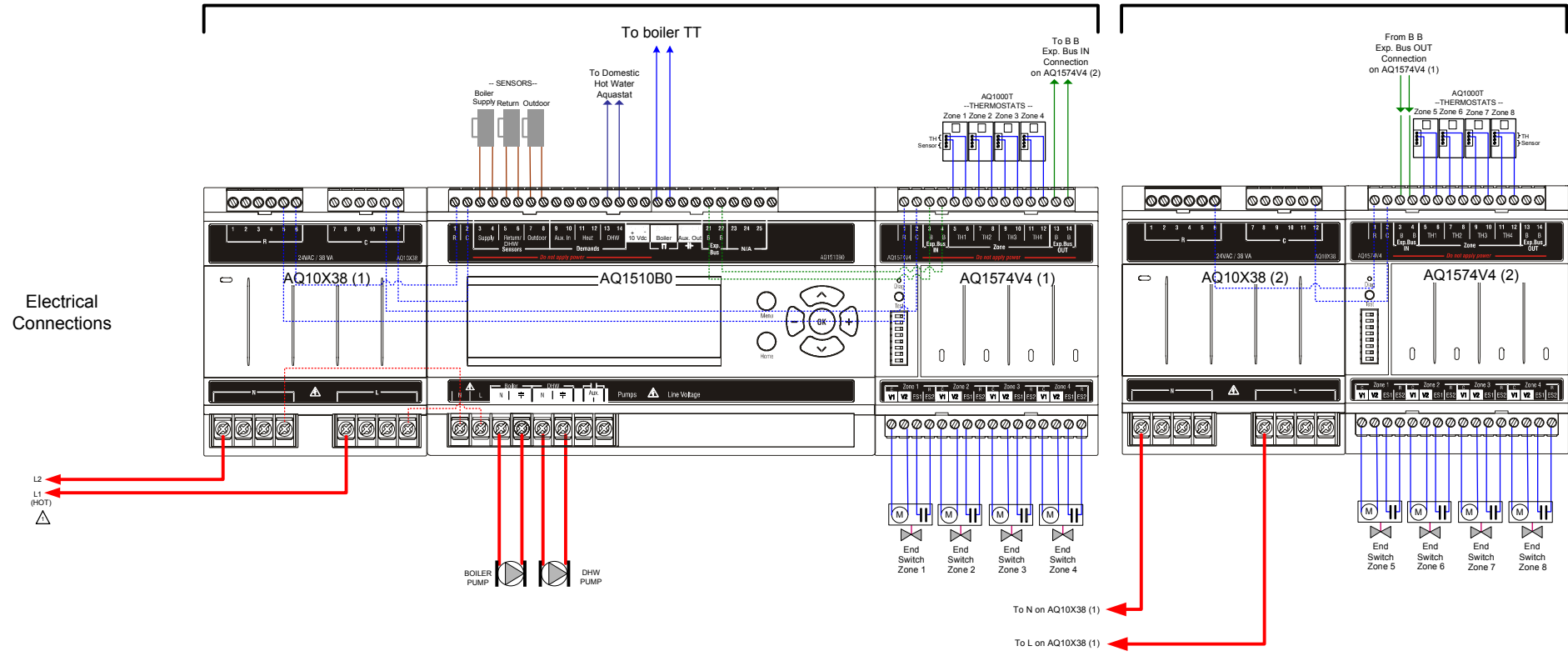
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AQ2514B4 + AQ2574V4

AQ2514B4

AQ2574V4



BILL OF MATERIAL

Parts	Quantity
AQ2514B4	1
AQ2574V4	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043E/F	8
DHW PUMP	1

Suggested Accessories Available from Honeywell:

Hydronic Controls

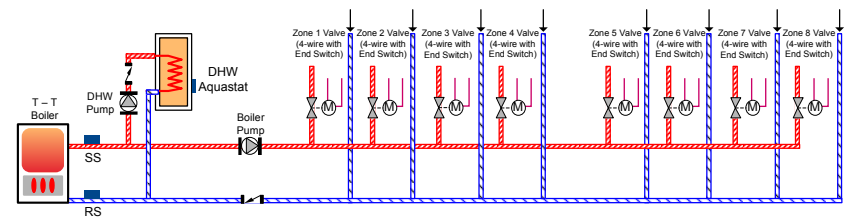
- Air Eliminator
- PV Series
- Expansion Tank or Combo Kit
- TK Series
- Boiler Fill Valve & Back Flow Preventer
- FM911
- Differential Pressure Regulator
- D146 Series
- Radiant Mixing Valve
- AM Radiant Series
- Supply/Return Manifolds
- RM & SZ Series
- Ball Valves (Water Shutoff)
- B200 Series

Potable Controls

- Thermostatic Mixing Valve
- AM Series
- AMX Series
- Pressure Reducing Valve
- DS05
- DS06

△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

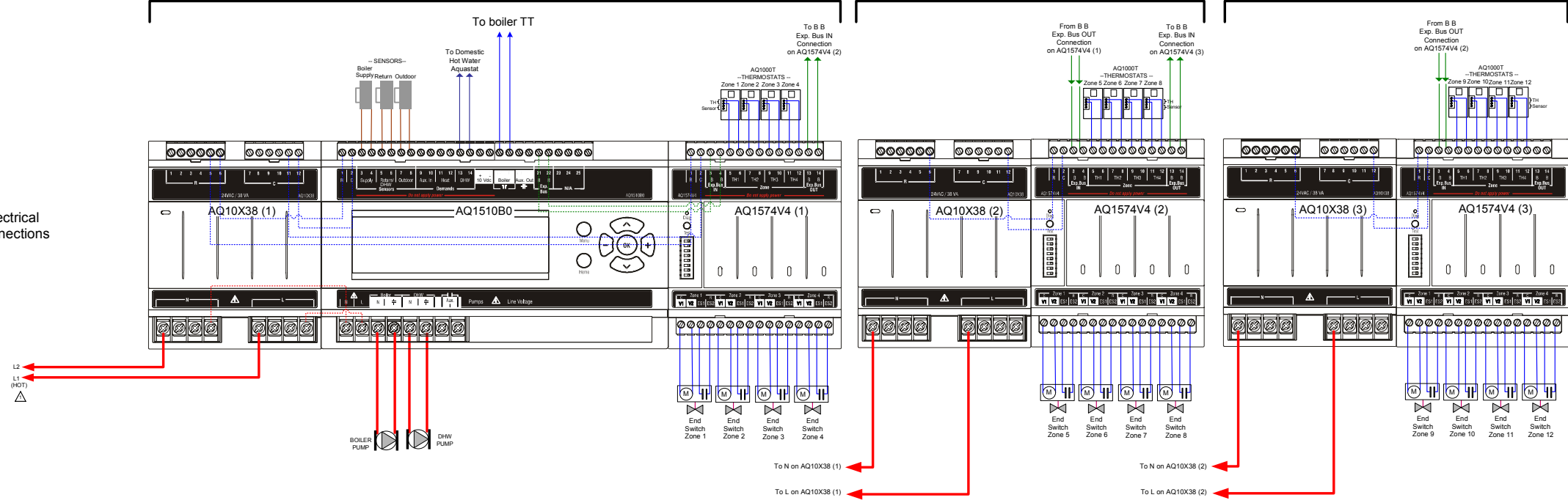
AQ2514B4 + AQ2574V4 (2)

AQ2514B4

AQ2574V4

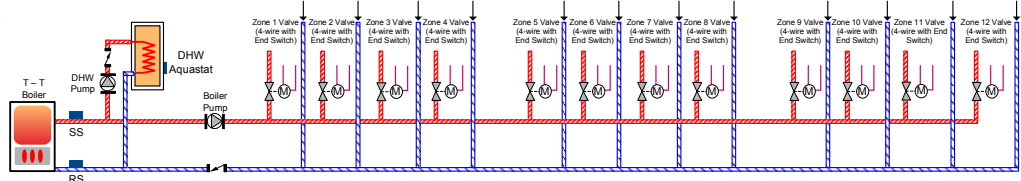
AQ2574V4

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

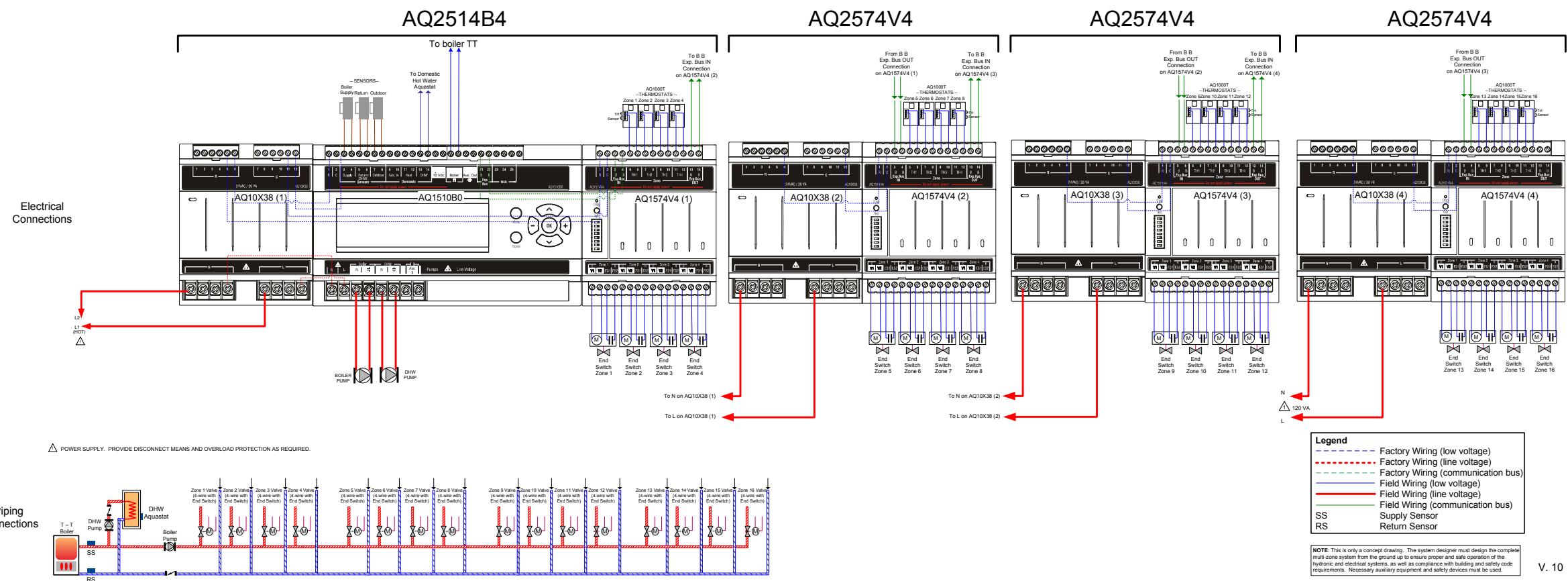
NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2514B4	1
AQ2574V4	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043E/F	12
DHW PUMP	1

- Suggested Accessories Available from Honeywell:**
- Hydronic Controls**
 - Air Eliminator
 - PV Series
 - Potable Controls**
 - Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06
 - Expansion Tank or Combo Kit**
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer**
 - FM911
 - Differential Pressure Regulator**
 - D146 Series
 - Radiant Mixing Valve**
 - AM Radiant Series
 - Supply/Return Manifolds**
 - RM & SZ Series
 - Ball Valves (Water Shutoff)**
 - B200 Series

AQ2514B4 + AQ2574V4 (3)

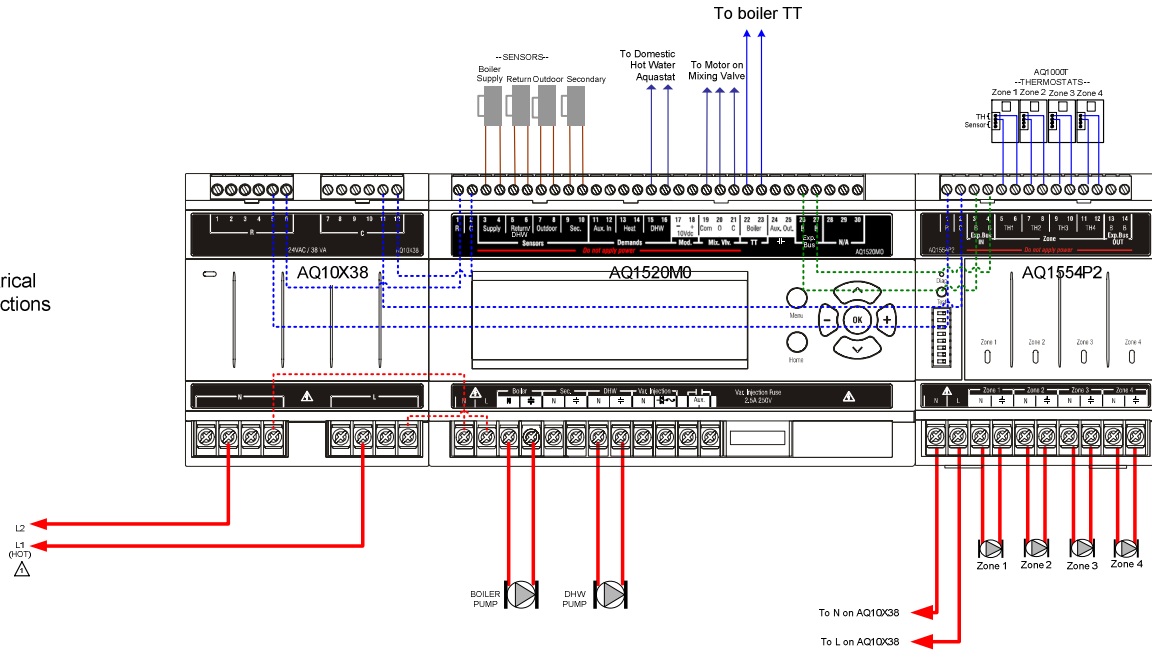


BILL OF MATERIAL		Suggested Accessories Available from Honeywell:	
Parts	Quantity	Hydronic Controls	Potable Controls
AQ2514B4	1	Air Eliminator	Thermostatic Mixing Valve
AQ2574V4	3	• PV Series	• AM Series
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16	Expansion Tank or Combo Kit	• AMX Series
ZONE VALVES - V8043E/F	16	• TK Series	Pressure Reducing Valve
DHW PUMP	1	Boiler Fill Valve & Back Flow Preventer	• DS05
		• FM911	• DS06
		Differential Pressure Regulator	
		• D146 Series	
		Radiant Mixing Valve	
		• AM Radiant Series	
		Supply/Return Manifolds	
		• RM & SZ Series	
		Ball Valves (Water Shutoff)	
		• B200 Series	

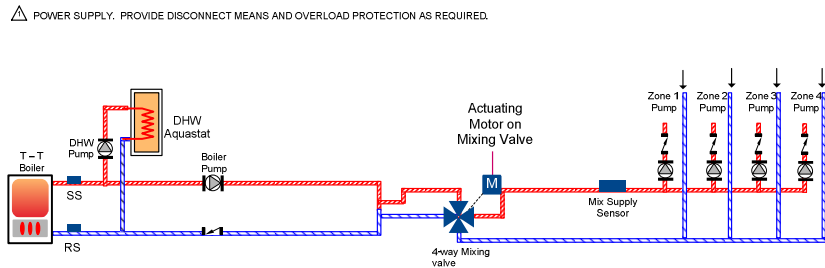
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 To print on legal size paper, select Properties → Advanced under Paper Size, select Legal.

AQ2524M2 (Pumps)

Electrical Connections



Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2524M2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE PUMPS	4
DHW PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Available from Honeywell:

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

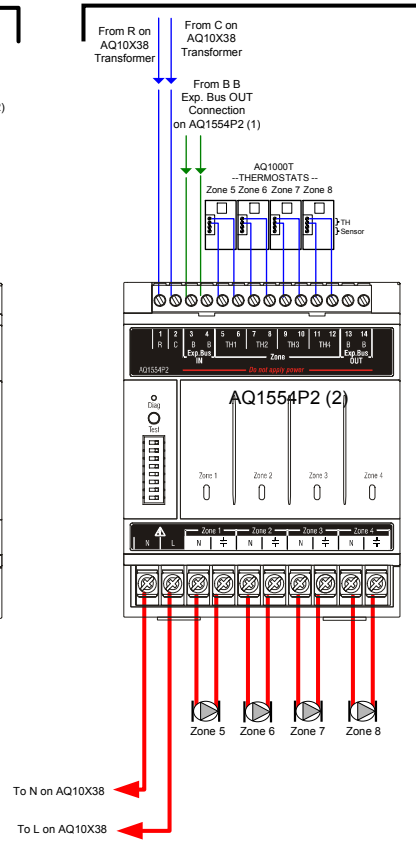
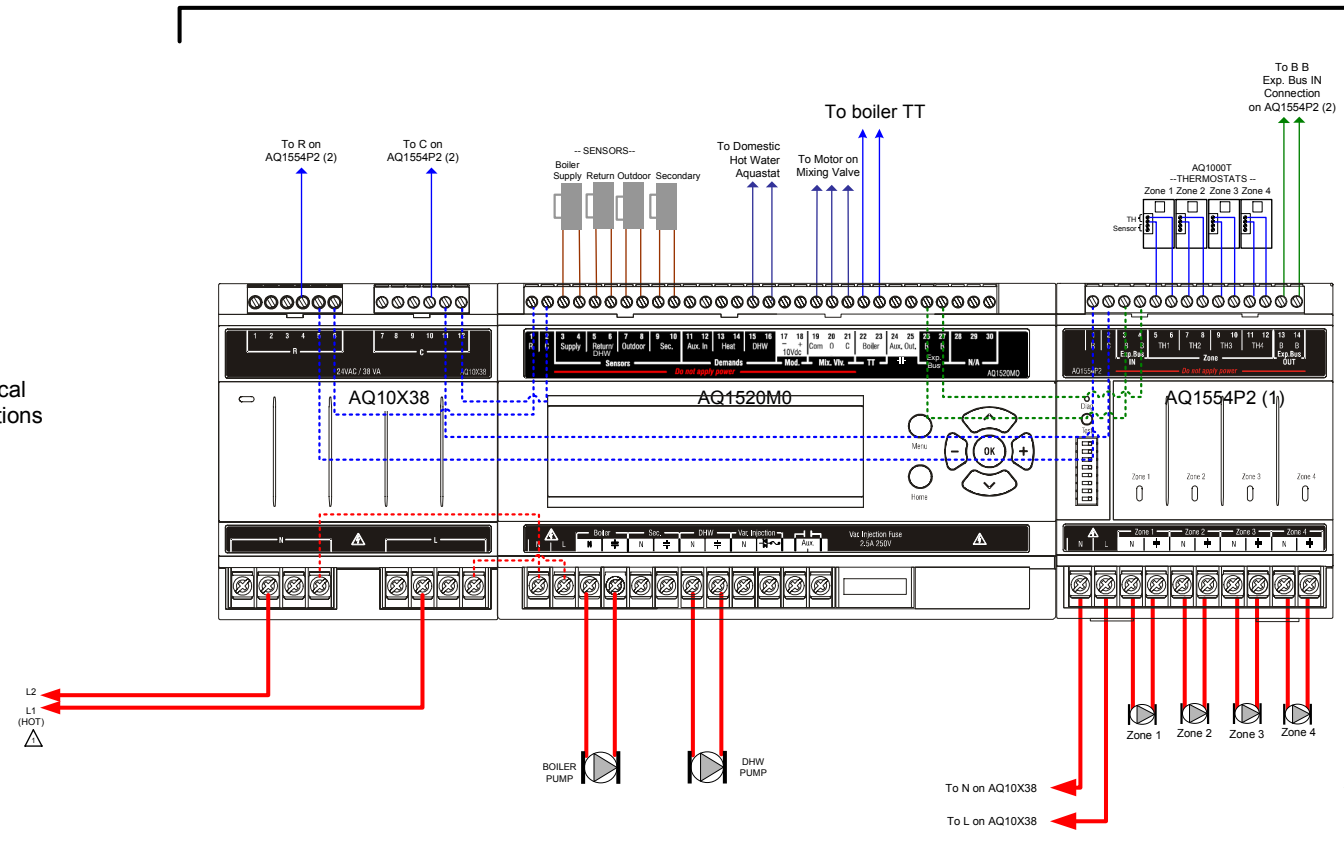
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 To print on legal size paper, select Properties → Advanced under Paper Size, select Legal.

AQ2524M2 + AQ2554P2X

AQ2524M2

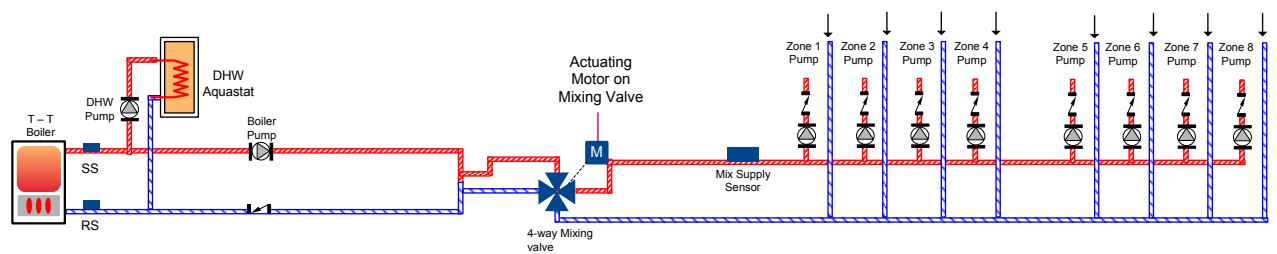
AQ2554P2X

Electrical Connections



⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2524M2	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE PUMPS	8
DHW PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Hydronic Controls

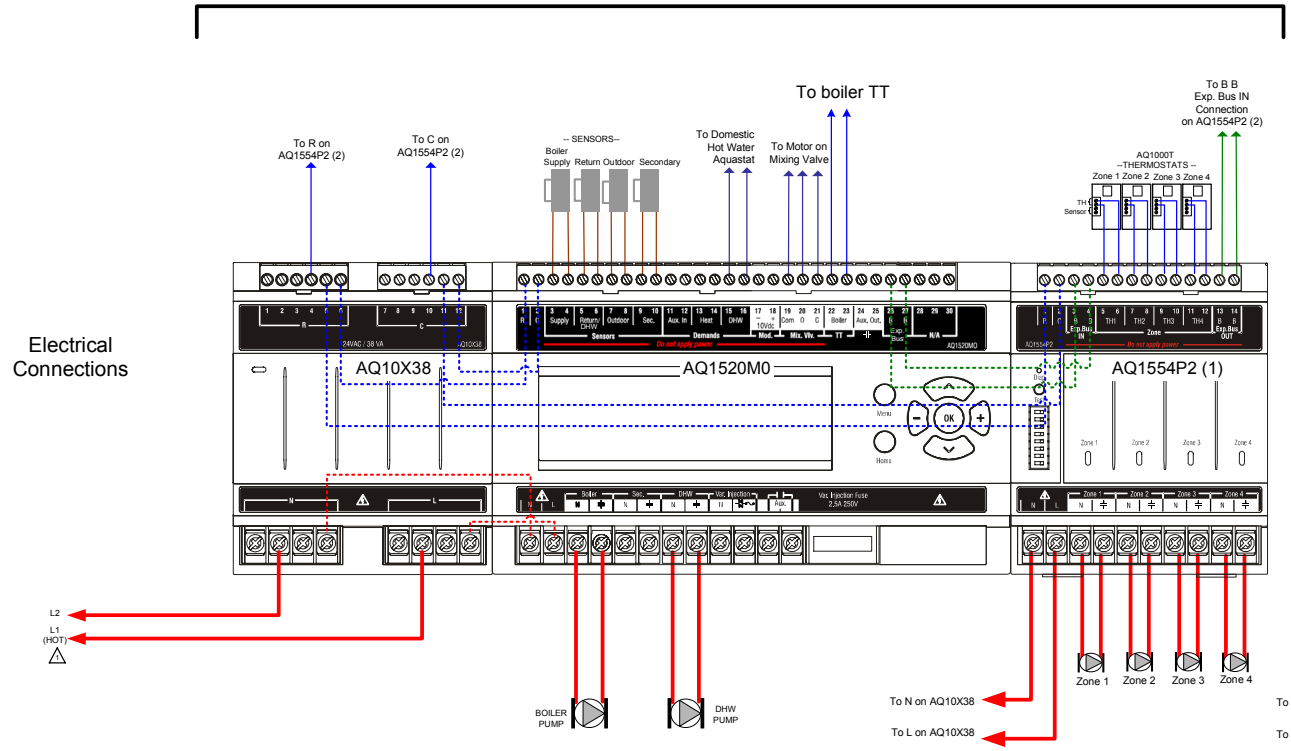
- Air Eliminator*
 - PV Series
- Expansion Tank or Combo Kit*
 - TK Series
- Boiler Fill Valve & Back Flow Preventer*
 - FM911
- Differential Pressure Regulator*
 - D146 Series
- Radiant Mixing Valve*
 - AM Radiant Series
- Supply/Return Manifolds*
 - RM & SZ Series
- Ball Valves (Water Shutoff)*
 - B200 Series

Potable Controls

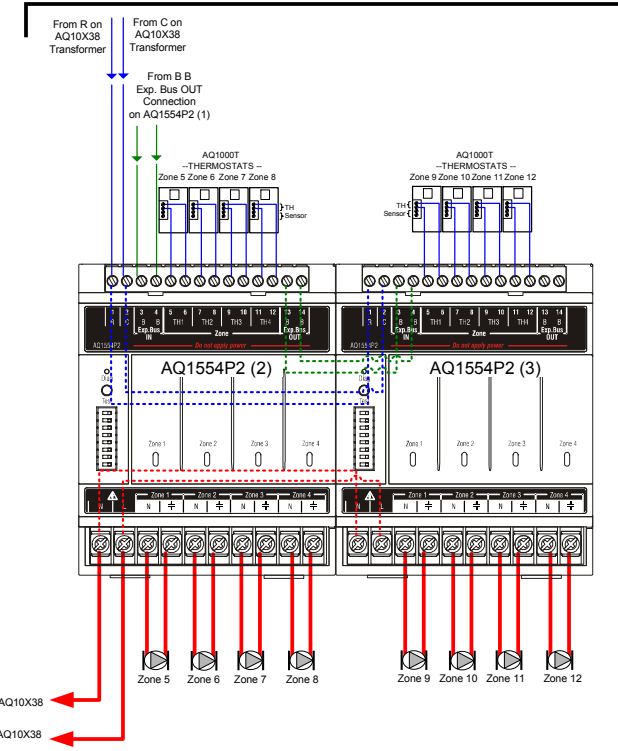
- Thermostatic Mixing Valve*
 - AM Series
 - AMX Series
- Pressure Reducing Valve*
 - DS05
 - DS06

AQ2524M2 + AQ2558P2X

AQ2524M2



AQ2558P2X



BILL OF MATERIAL

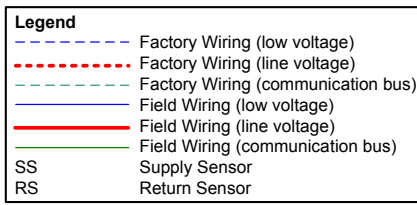
Parts	Quantity
AQ2524M2	1
AQ2558P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE PUMPS	12
DHW PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Hydronic Controls

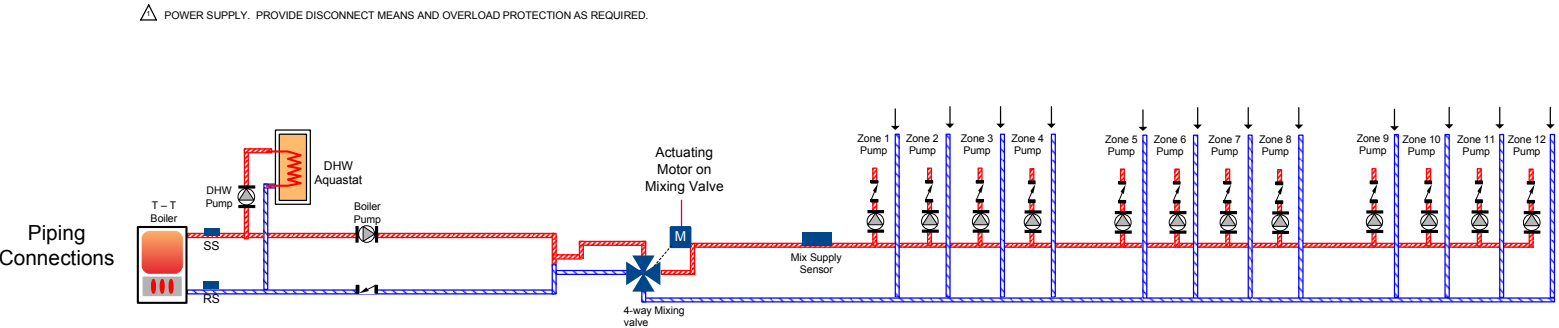
- Air Eliminator
 - PV Series
- Expansion Tank or Combo Kit
 - TK Series
- Boiler Fill Valve & Back Flow Preventer
 - FM911
- Differential Pressure Regulator
 - D146 Series
- Radiant Mixing Valve
 - AM Radiant Series
- Supply/Return Manifolds
 - RM & SZ Series
- Ball Valves (Water Shutoff)
 - B200 Series

Potable Controls

- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
- Pressure Reducing Valve
 - DS05
 - DS06



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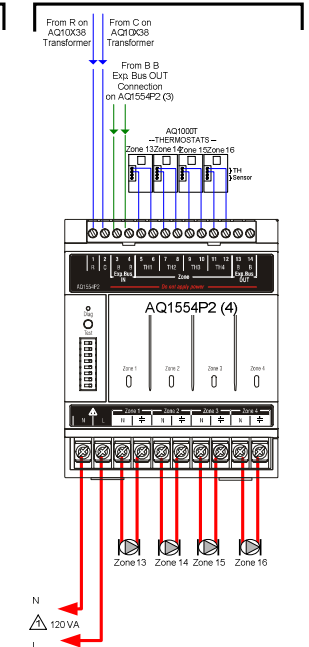
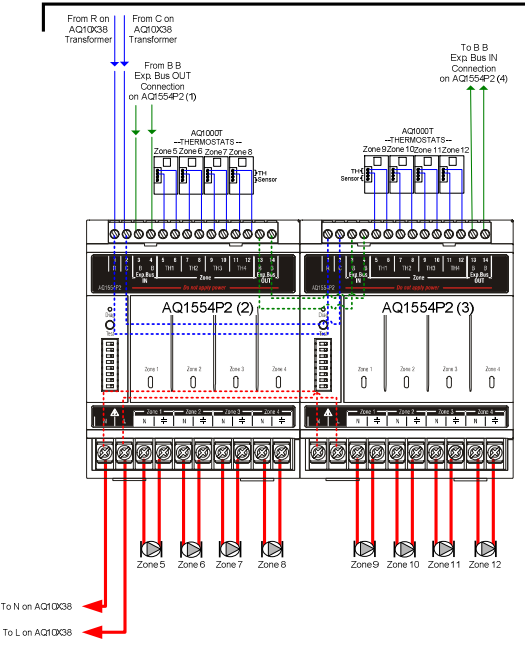
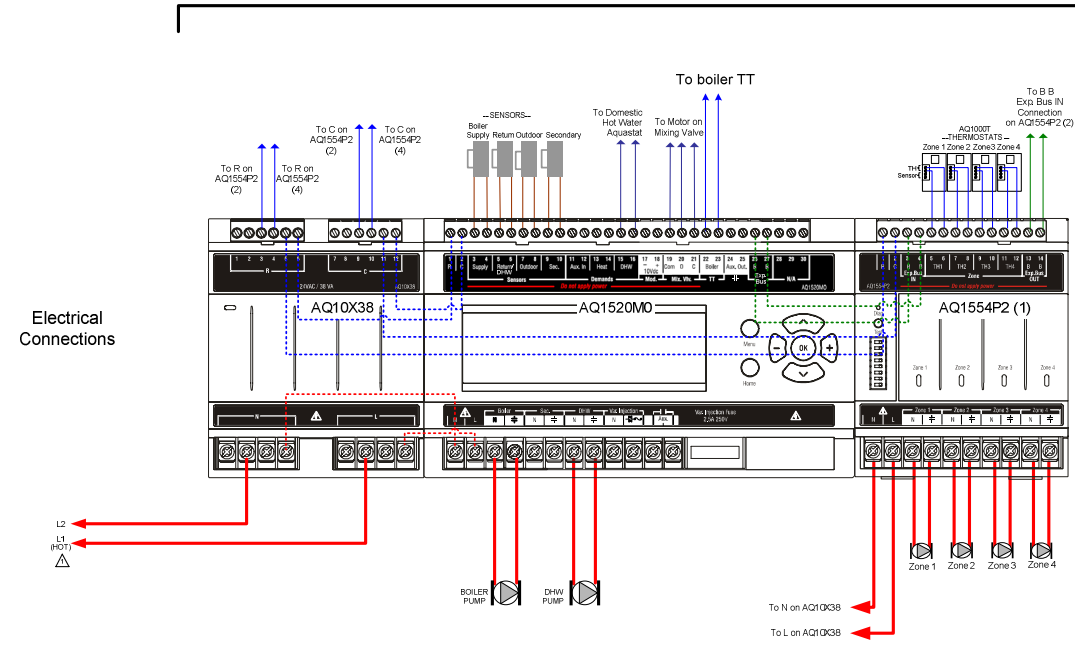


AQ2524M2 + AQ2558P2X + AQ2554P2X

AQ2524M2

AQ2558P2X

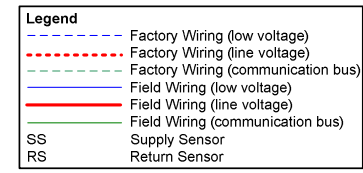
AQ2554P2X



BILL OF MATERIAL	
Parts	Quantity
AQ2524M2	1
AQ2558P2X	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE PUMPS	16
DHW PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

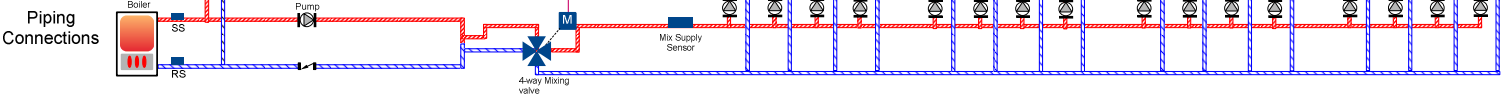
- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series

- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06



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POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

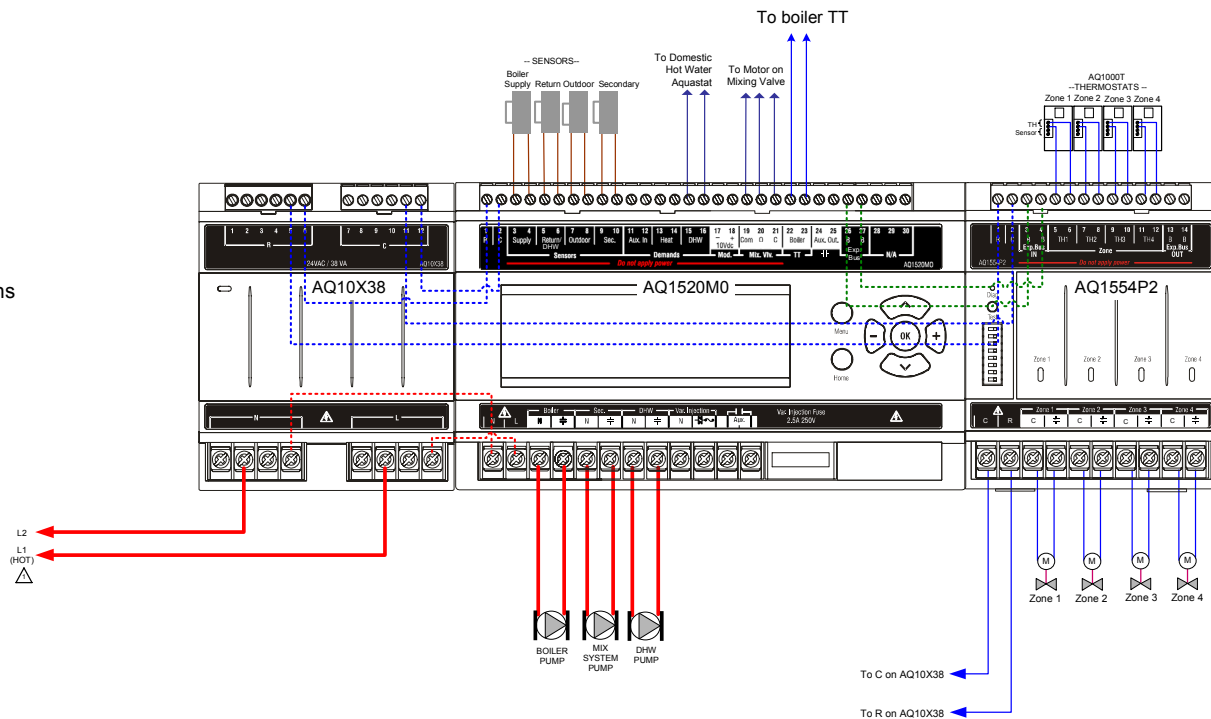


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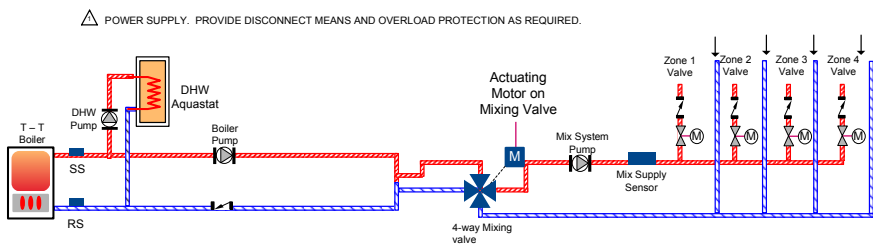
To print on legal size paper, select Properties → Advanced under Paper Size, select Legal.

AQ2524M2 (Valves)

Electrical Connections



Piping Connections



Legend

- - - - - Factory Wiring (low voltage)
- · - · - Factory Wiring (line voltage)
- - - - - Factory Wiring (communication bus)
- — — — Field Wiring (low voltage)
- — — — Field Wiring (line voltage)
- — — — Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2524M2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043A	4
DHW PUMP	1
MIXING PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Hydronic Controls

- Air Eliminator*
- PV Series
- Expansion Tank or Combo Kit*
- TK Series
- Boiler Fill Valve & Back Flow Preventer*
- FM911
- Differential Pressure Regulator*
- D146 Series
- Radiant Mixing Valve*
- AM Radiant Series
- Supply/Return Manifolds*
- RM & SZ Series
- Ball Valves (Water Shutoff)*
- B200 Series

Potable Controls

- Thermostatic Mixing Valve*
- AM Series
- AMX Series
- Pressure Reducing Valve*
- DS05
- DS06

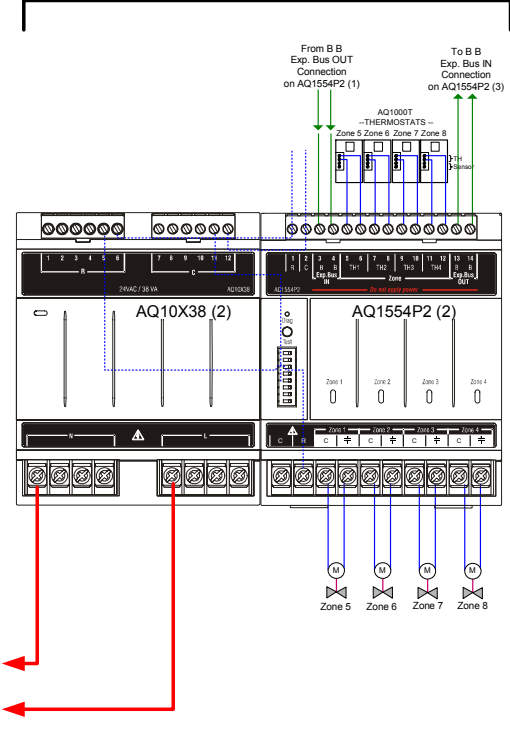
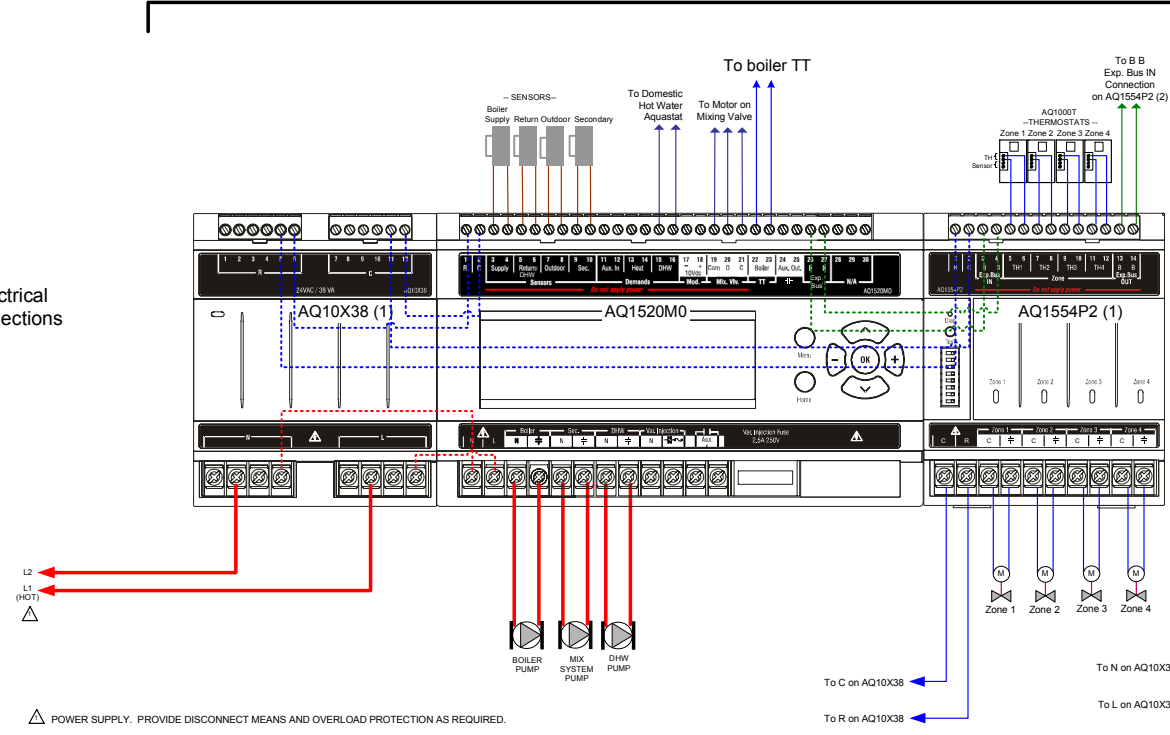
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AQ2524M2 + AQ2554V2

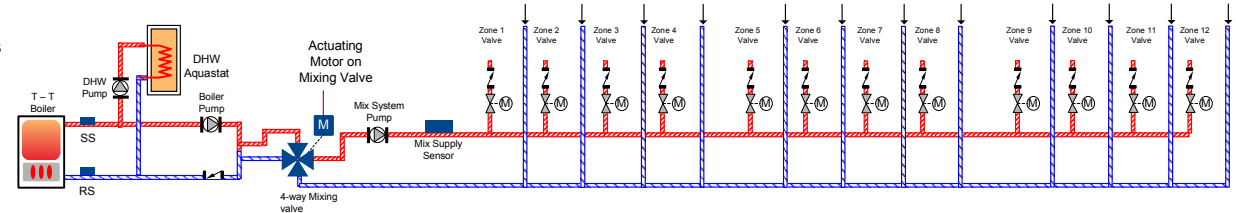
AQ2524M2

AQ2554V2

Electrical Connections



Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

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BILL OF MATERIAL

Parts	Quantity
AQ252M2	1
AQ2554V2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043A	8
DHW PUMP	1
MIXING PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Hydronic Controls

- Air Eliminator*
- PV Series
- Expansion Tank or Combo Kit*
- TK Series
- Boiler Fill Valve & Back Flow Preventer*
- FM911
- Differential Pressure Regulator*
- D146 Series
- Radiant Mixing Valve*
- AM Radiant Series
- Supply/Return Manifolds*
- RM & SZ Series
- Ball Valves (Water Shutoff)*
- B200 Series

Potable Controls

- Thermostatic Mixing Valve*
- AM Series
- AMX Series
- Pressure Reducing Valve*
- DS05
- DS06

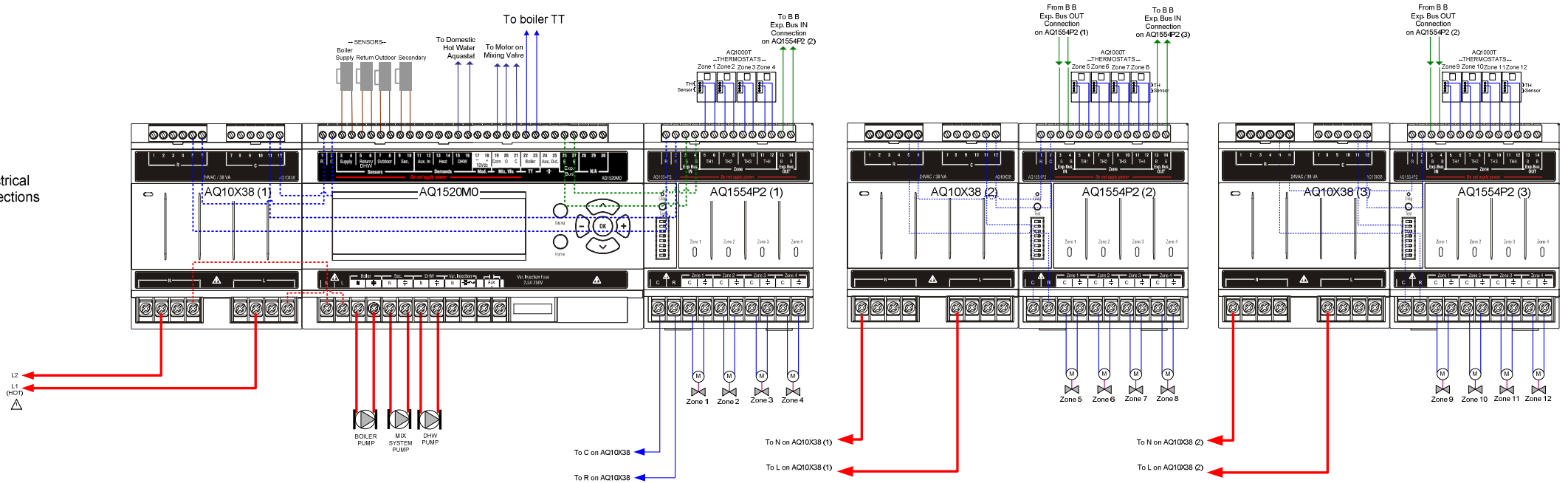
AQ2524M2 + AQ2554V2 (2)

AQ2524M2

AQ2554V2

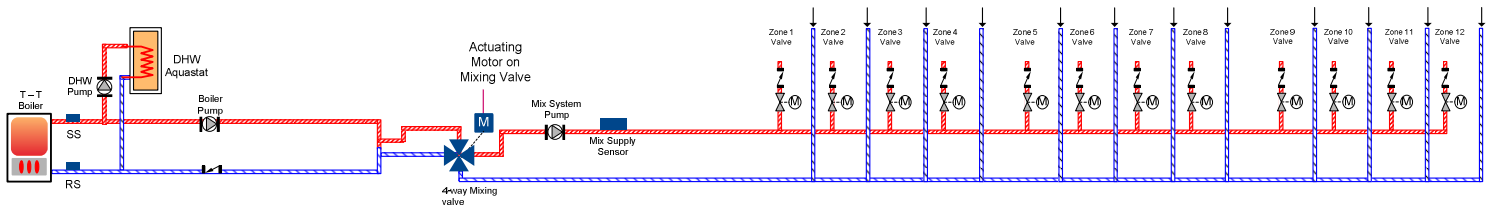
AQ2554V2

Electrical Connections



⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- Supply Sensor
- Return Sensor

NOTE This is only a concept drawing. The system designer must design the complete multizone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

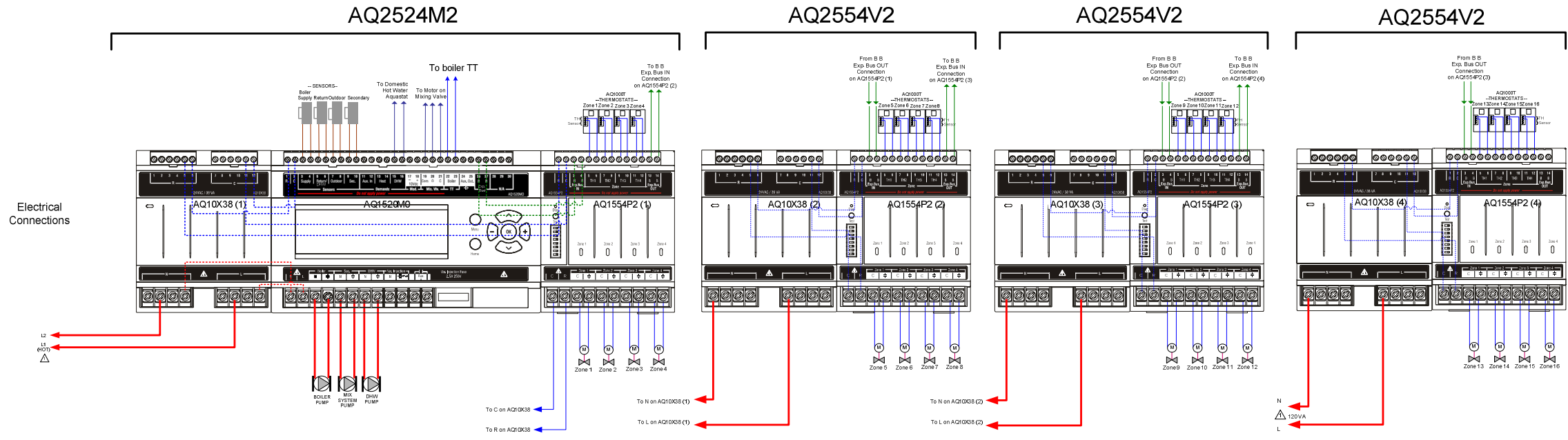
BILL OF MATERIAL

Parts	Quantity
AQ2524M2	1
AQ2554V2	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043A	12
DHW PUMP	1
MIXING PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

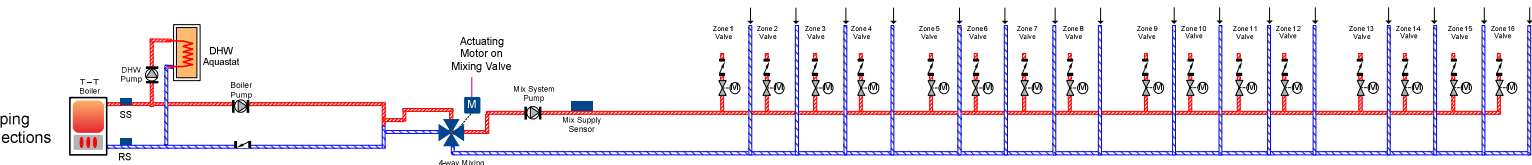
- Suggested Accessories Available from Hot Potable Controls**
- | | |
|---|----------------------------------|
| Hydronic Controls | Thermostatic Mixing Valve |
| • Air Eliminator | • AM Series |
| • PV Series | • AMX Series |
| Expansion Tank or Combo Kit | Pressure Reducing Valve |
| • TK Series | • DS05 |
| • Boiler Fill Valve & Back Flow Preventer | • DS06 |
| • FM911 | |
| Differential Pressure Regulator | |
| • D146 Series | |
| Radiant Mixing Valve | |
| • AM Radiant Series | |
| Supply/Return Manifolds | |
| • RM & SZ Series | |
| Ball Valves (Water Shutoff) | |
| • B200 Series | |

AQ2524M2 + AQ2554V2 (3)

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△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.



Legend

- - - Factory Wiring (low voltage)
- . - . Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

V. 10

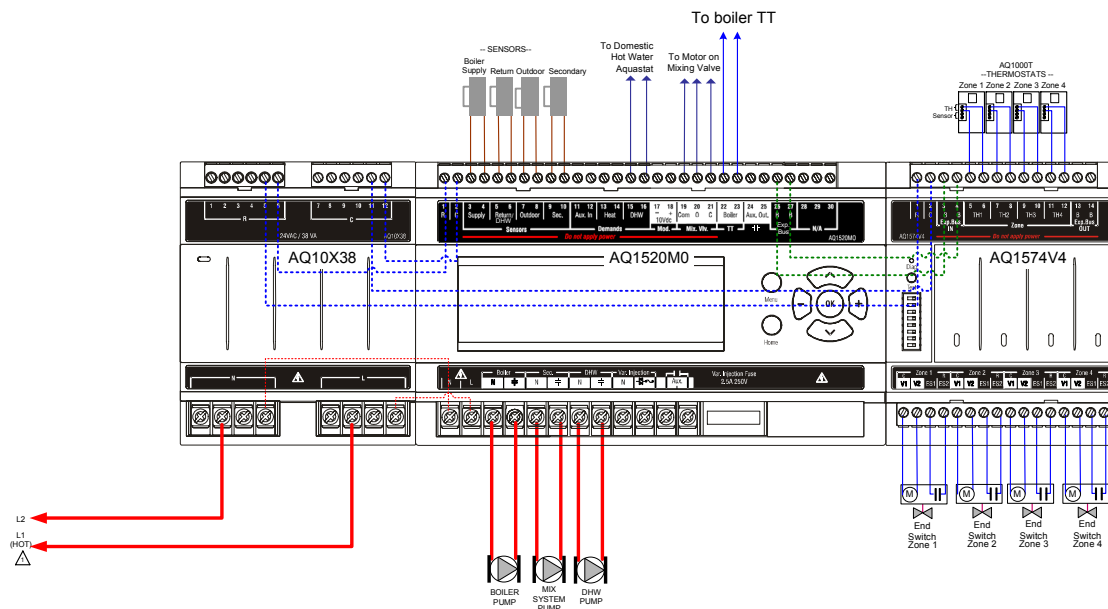
BILL OF MATERIAL		Suggested Accessories Available from Hor Potable Controls	
Parts	Quantity	Hydronic Controls	Thermostatic Mixing Valve
AQ2524M2	1	Air Eliminator	• AM Series
AQ2554V2	3	• PV Series	• AMX Series
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16	Expansion Tank or Combo Kit	Pressure Reducing Valve
ZONE VALVES - V8043A	16	• TK Series	• DS05
DHW PUMP	1	Boiler Fill Valve & Back Flow Preventer	• DS06
MIXING PUMP	1	• FM911	
M6063A4007 ACTUATOR FOR V5442N	1	Differential Pressure Regulator	
V5442N SERIES 4-WAY MIXING VALVE	1	• D146 Series	
		Radiant Mixing Valve	
		• AM Radiant Series	
		Supply/Return Manifolds	
		• RM & SZ Series	
		Ball Valves (Water Shutoff)	
		• B200 Series	

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To print on legal size paper, select Properties → Advanced under Paper Size, select Legal.

AQ2524M4

Electrical Connections



BILL OF MATERIAL

Parts	Quantity
AQ2524M4	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043E/F	4
DHW PUMP	1
MIXING PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Hydronic Controls

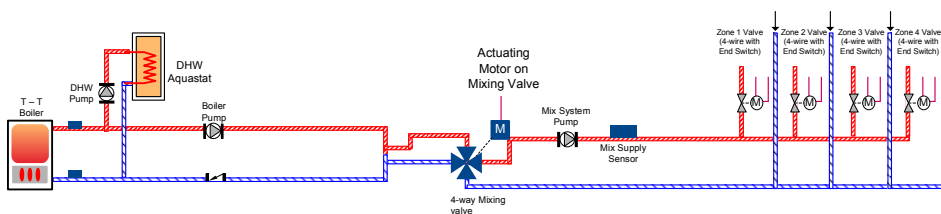
- Air Eliminator*
 - PV Series
- Expansion Tank or Combo Kit*
 - TK Series
- Boiler Fill Valve & Back Flow Preventer*
 - FM911
- Differential Pressure Regulator*
 - D146 Series
- Radiant Mixing Valve*
 - AM Radiant Series
- Supply/Return Manifolds*
 - RM & SZ Series
- Ball Valves (Water Shutoff)*
 - B200 Series

Potable Controls

- Thermostatic Mixing Valve*
 - AM Series
 - AMX Series
- Pressure Reducing Valve*
 - DS05
 - DS06

Piping Connections

△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

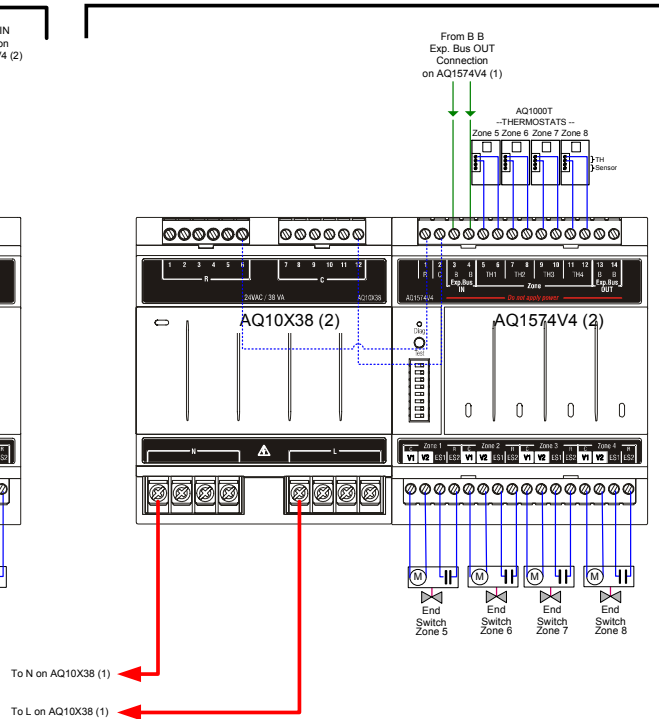
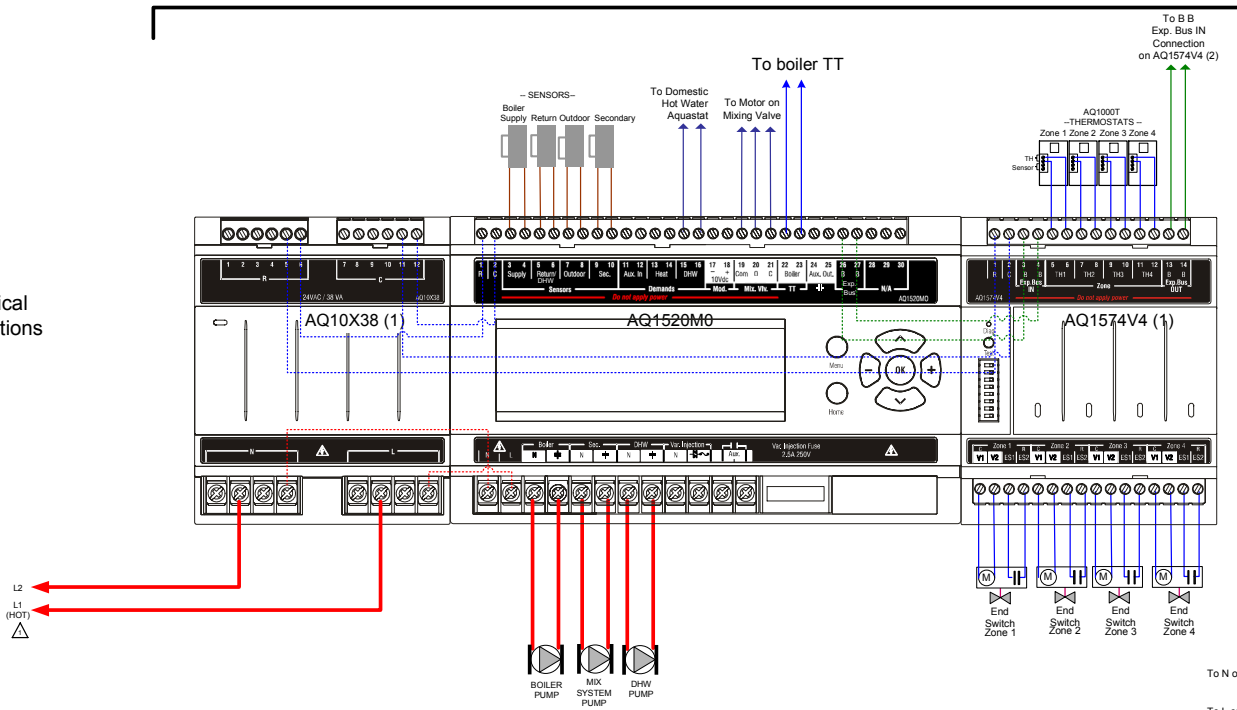
NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

AQ2524M4 + AQ2574V4

AQ2524M4

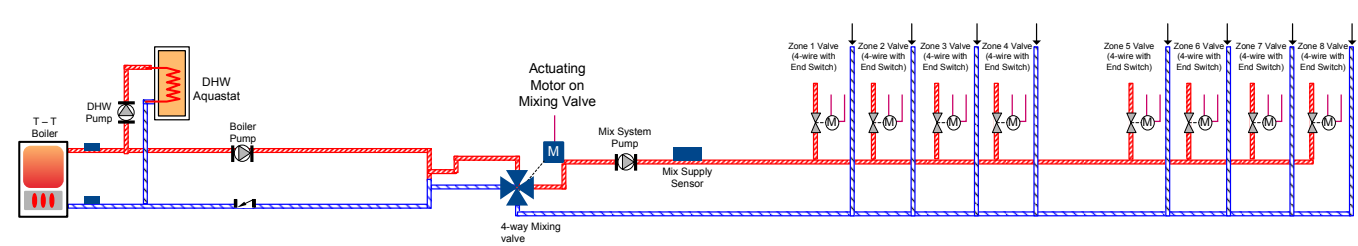
AQ2574V4

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



Legend

- - - Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2524M4	1
AQ2574V4	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043E/F	8
DHW PUMP	1
MIXING PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Hydronic Controls

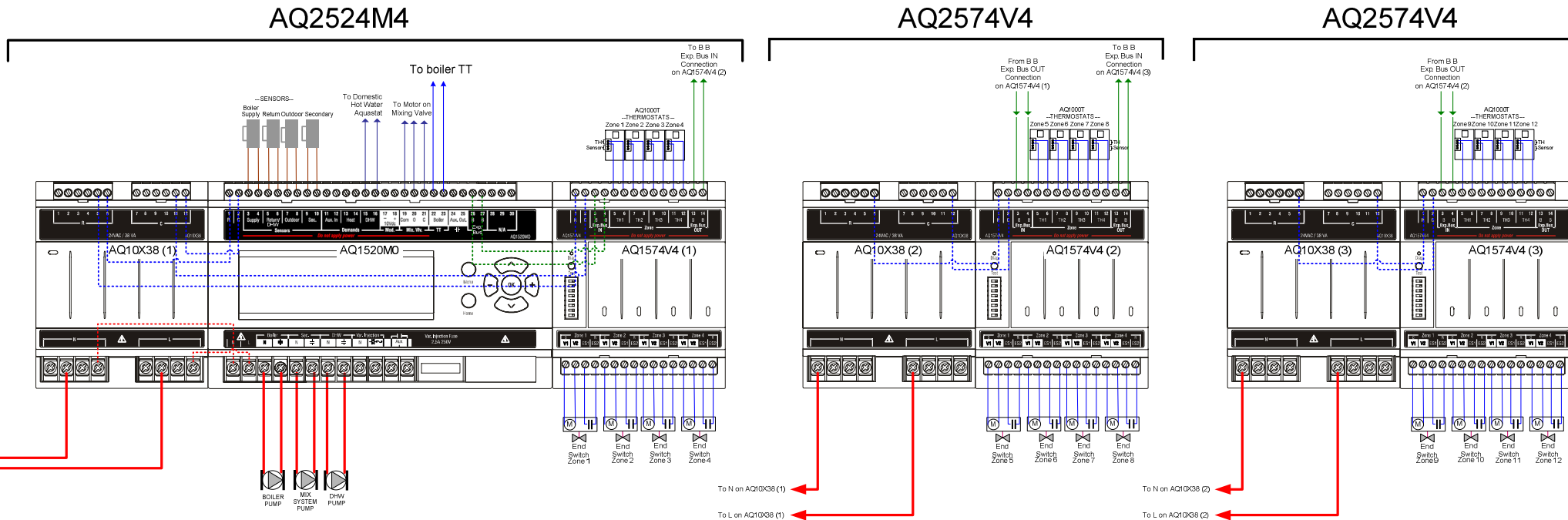
- Air Eliminator**
 - PV Series
- Expansion Tank or Combo Kit**
 - TK Series
- Boiler Fill Valve & Back Flow Preventer**
 - FM911
- Differential Pressure Regulator**
 - D146 Series
- Radiant Mixing Valve**
 - AM Radiant Series
- Supply/Return Manifolds**
 - RM & SZ Series
- Ball Valves (Water Shutoff)**
 - B200 Series

Potable Controls

- Thermostatic Mixing Valve**
 - AM Series
 - AMX Series
- Pressure Reducing Valve**
 - DS05
 - DS06

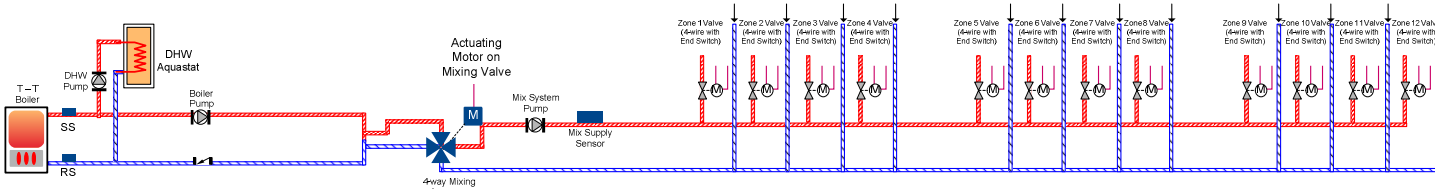
AQ2524M4 + AQ2574V4 (2)

Electrical Connections



△ POWER SUPPLY: PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED

Piping Connections



Legend

- - - Factory Wiring (low voltage)
- - - Factory Wiring (line voltage)
- - - Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used

BILL OF MATERIAL

Parts	Quantity
AQ2524M4	1
AQ2574V4	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043E/F	12
DHW PUMP	1
MIXING PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

- Suggested Accessories Available from Ho Potable Controls**
- | | |
|---|----------------------------------|
| Hydronic Controls | Thermostatic Mixing Valve |
| • Air Eliminator | • AM Series |
| • PV Series | • AMX Series |
| Expansion Tank or Combo Kit | Pressure Reducing Valve |
| • TK Series | • DS05 |
| • Boiler Fill Valve & Back Flow Preventer | • DS06 |
| • FM911 | |
| Differential Pressure Regulator | |
| • D146 Series | |
| Radiant Mixing Valve | |
| • AM Radiant Series | |
| Supply/Return Manifolds | |
| • RM & SZ Series | |
| Ball Valves (Water Shutoff) | |
| • B200 Series | |

AQ2524M4 + AQ2574V4 (3)

Electrical Connections

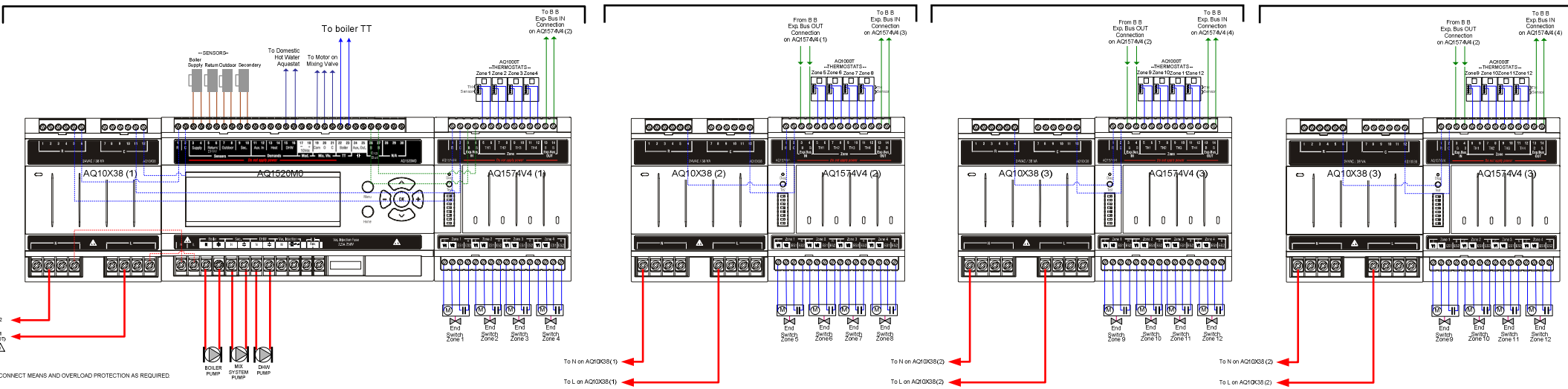
△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED

AQ2524M4

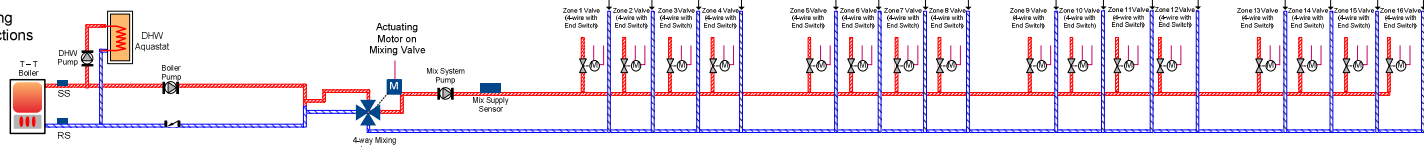
AQ2574V4

AQ2574V4

AQ2574V4



Piping Connections



BILL OF MATERIAL

Parts	Quantity
AQ2524M4	1
AQ2574V4	3
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE VALVES - V8043E/F	16
DHW PUMP	1
MIXING PUMP	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Suggested Accessories Available from Hon Potable Controls

- | | |
|--|----------------------------------|
| Hydronic Controls | Thermostatic Mixing Valve |
| • Air Eliminator | • AM Series |
| • PV Series | • AMX Series |
| Expansion Tank or Combo Kit | Pressure Reducing Valve |
| • TK Series | • DS05 |
| Boiler Fill Valve & Back Flow Preventer | • DS06 |
| • FM911 | |
| Differential Pressure Regulator | |
| • D146 Series | |
| Radiant Mixing Valve | |
| • AM Radiant Series | |
| Supply/Return Manifolds | |
| • RM & SZ Series | |
| Ball Valves (Water Shutoff) | |
| • B200 Series | |

Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete functional system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

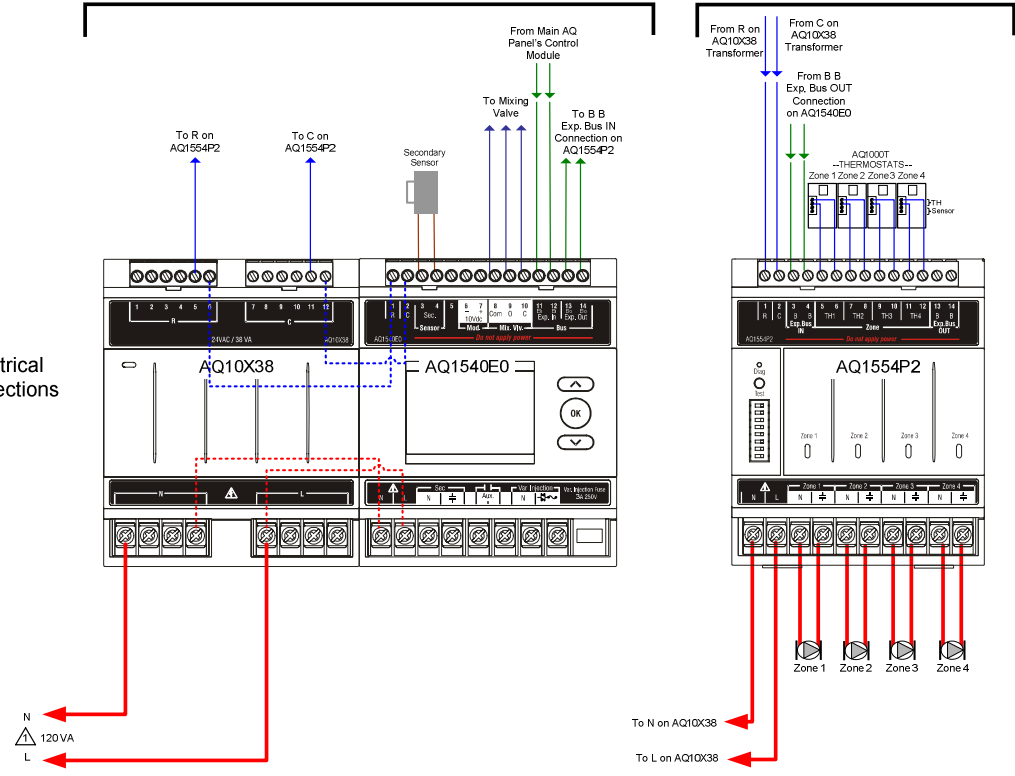
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AQ2541E0 + AQ2554P2X (Pumps)

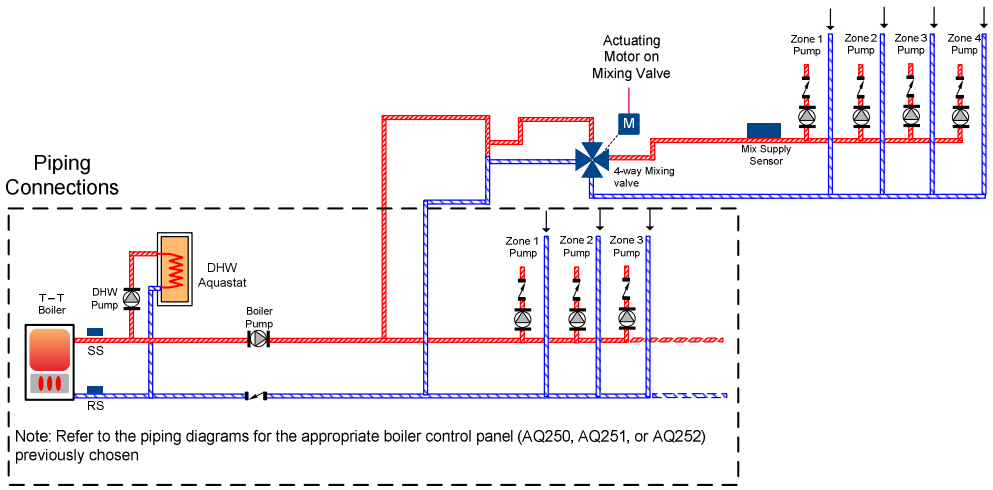
AQ2541E0

AQ2554P2X

Electrical Connections



Piping Connections



Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen

Legend	
---	Factory Wiring (low voltage)
---	Factory Wiring (line voltage)
—	Field Wiring (low voltage)
—	Field Wiring (line voltage)
—	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used

BILL OF MATERIAL

Parts	Quantity
AQ2541E0	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE PUMPS	4
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Air Eliminator

- PV Series
- Expansion Tank or Combo Kit**
- TK Series
- Boiler Fill Valve & Back Flow Preventer**
- FM911
- Differential Pressure Regulator**
- D146 Series
- Radiant Mixing Valve**
- AM Radiant Series
- Supply/Return Manifolds**
- RM & SZ Series
- Ball Valves (Water Shutoff)**
- B200 Series

Potable Controls

- Thermostatic Mixing Valve**
- AM Series
- AMX Series
- Pressure Reducing Valve**
- DS05
- DS06

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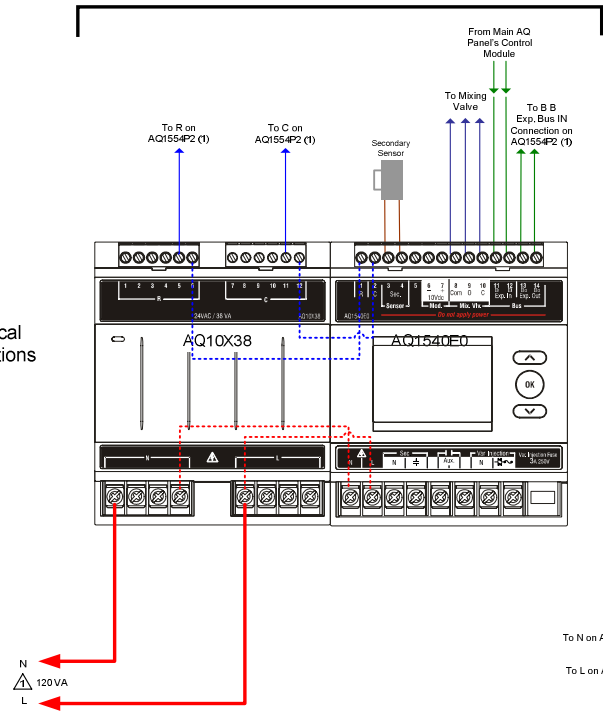
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AQ2541E0 + AQ2558P2X

AQ2541E0

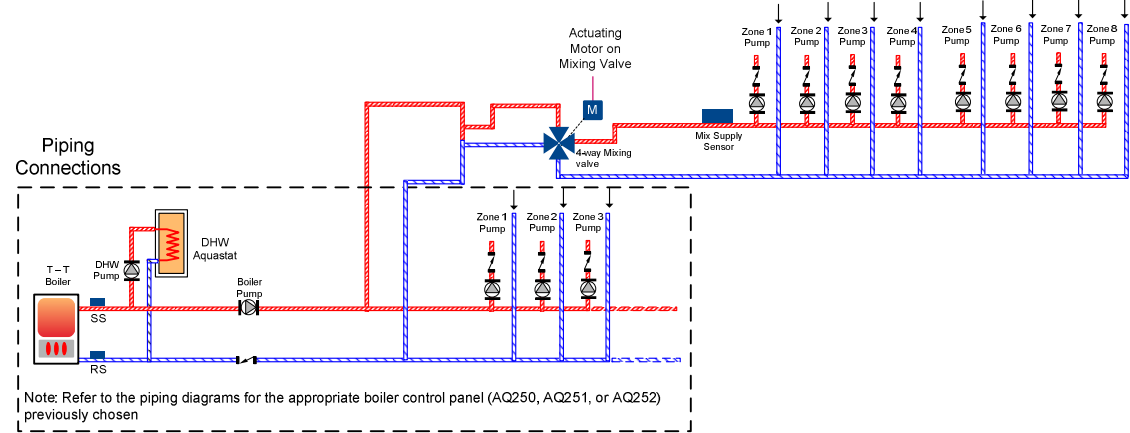
AQ2558P2X

Electrical Connections

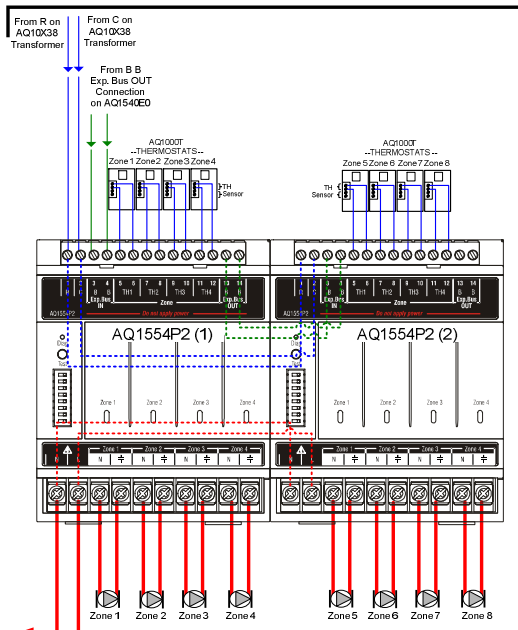


To N on AQ10X38
To L on AQ10X38

Piping Connections



Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen



Legend	
.....	Factory Wiring (low voltage)
-----	Factory Wiring (line voltage)
.....	Field Wiring (low voltage)
-----	Field Wiring (line voltage)
.....	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2541E0	1
AQ2558P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE PUMPS	8
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Air Eliminator

- PV Series
- Expansion Tank or Combo Kit*
- TK Series
- Boiler Fill Valve & Back Flow Preventer*
- FM911
- Differential Pressure Regulator*
- D146 Series
- Radiant Mixing Valve*
- AM Radiant Series
- Supply/Return Manifolds*
- RM & SZ Series
- Ball Valves (Water Shutoff)*
- B200 Series

Potable Controls

- Thermostatic Mixing Valve*
- AM Series
- AMX Series
- Pressure Reducing Valve*
- DS05
- DS06

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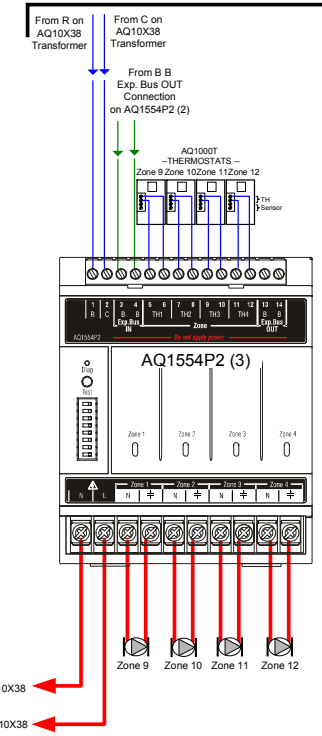
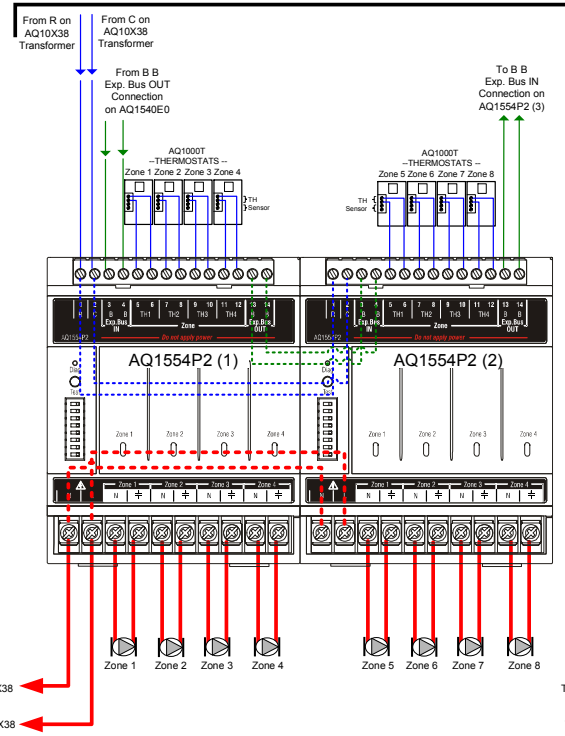
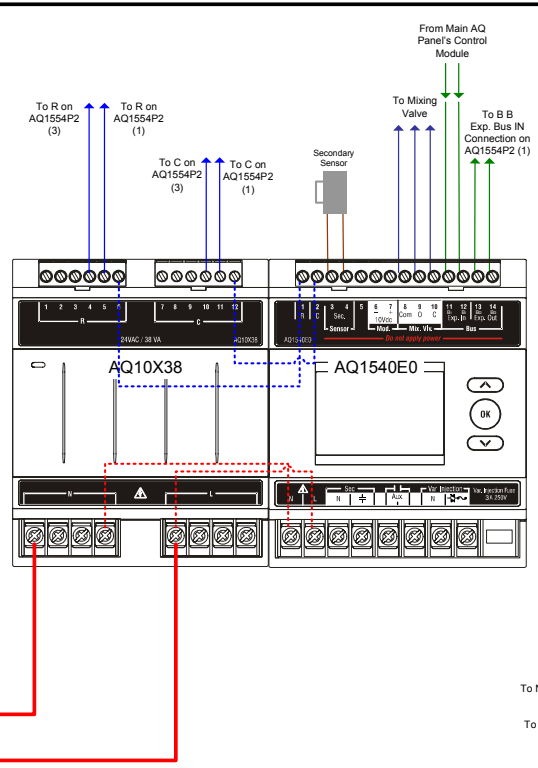
AQ2541E0 + AQ2558P2X + AQ2554P2X

AQ2541E0

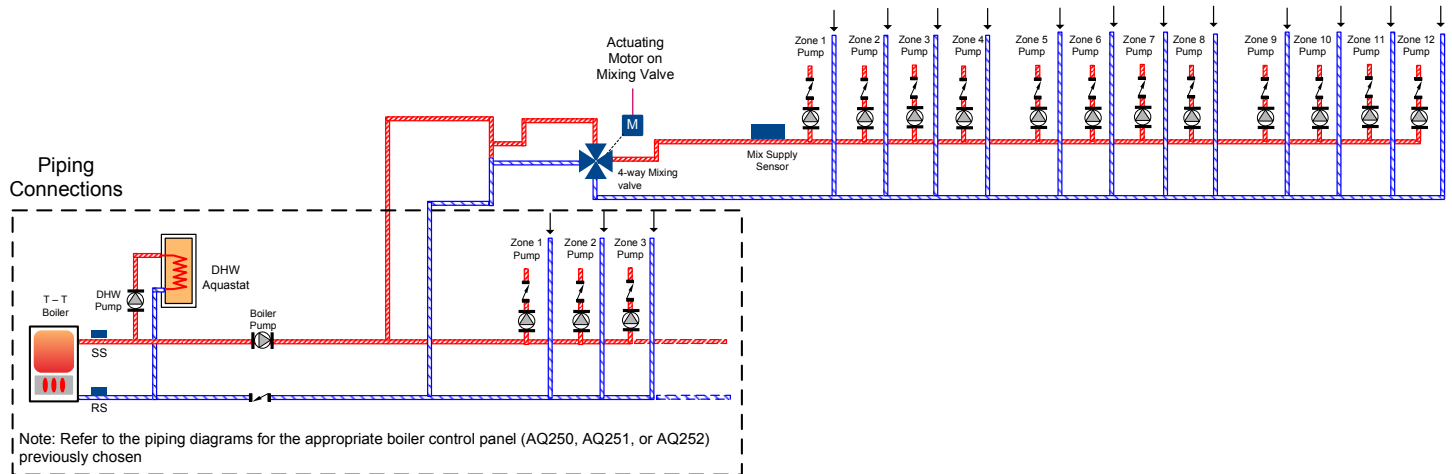
AQ2558P2X

AQ2554P2X

Electrical Connections



Piping Connections



Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen

Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2541E0	1
AQ2558P2X	1
AQ2554P2X	1
AQ1000TN2 non-programmable or	
AQ1000TP2 programmable thermostat	12
ZONE PUMPS	12
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Air Eliminator

- PV Series

Expansion Tank or Combo Kit

- TK Series

Boiler Fill Valve & Back Flow Preventer

- FM911

Differential Pressure Regulator

- D146 Series

Radiant Mixing Valve

- AM Radiant Series

Supply/Return Manifolds

- RM & SZ Series

Ball Valves (Water Shutoff)

- B200 Series

Potable Controls

Thermostatic Mixing Valve

- AM Series
- AMX Series

Pressure Reducing Valve

- DS05
- DS06

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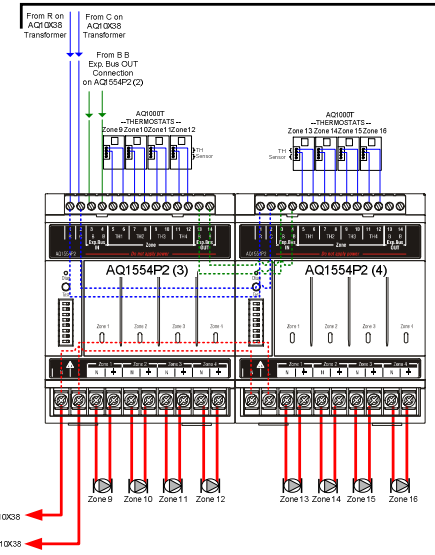
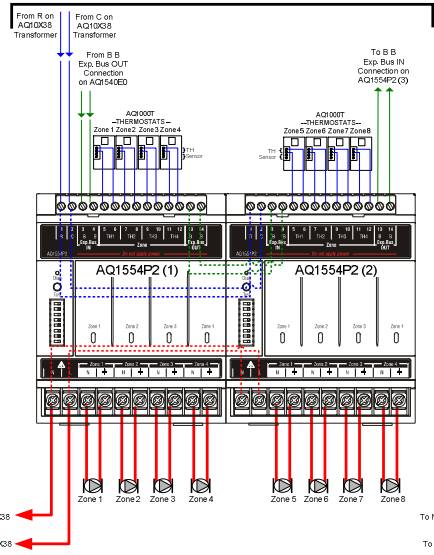
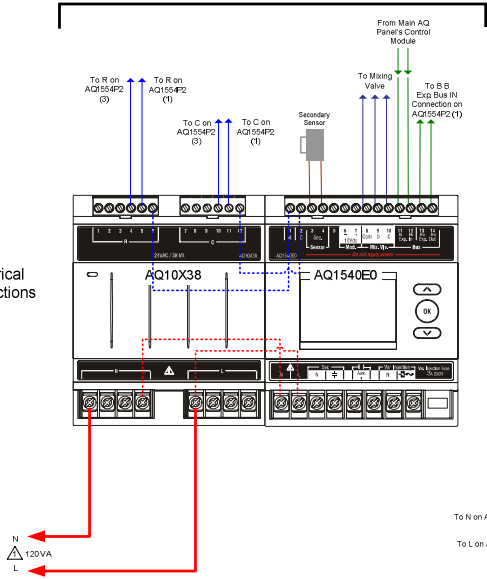
AQ2541E0 + AQ2558P2X (2)

AQ2541E0

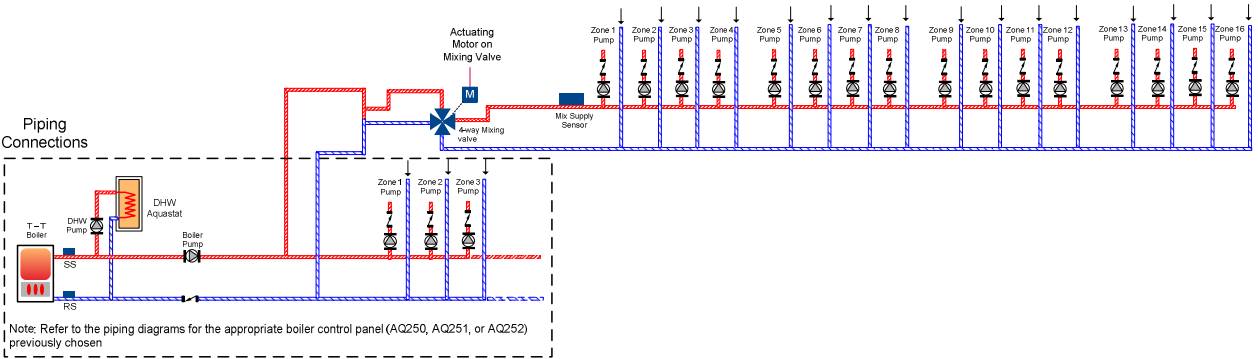
AQ2558P2X

AQ2558P2X

Electrical Connections



Piping Connections



Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen

Legend	
	Factory Wiring (low voltage)
	Factory Wiring (line voltage)
	Field Wiring (low voltage)
	Field Wiring (line voltage)
	Field Wiring (communication bus)
	Supply Sensor
	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2541E0	1
AQ2558P2X	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE PUMPS	16
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Air Eliminator

- PV Series

Expansion Tank or Combo Kit

- TK Series

Boiler Fill Valve & Back Flow Preventer

- FM911

Differential Pressure Regulator

- D146 Series

Radiant Mixing Valve

- AM Radiant Series

Supply/Return Manifolds

- RM & SZ Series

Ball Valves (Water Shutoff)

- B200 Series

Potable Controls

Thermostatic Mixing Valve

- AM Series
- AMX Series

Pressure Reducing Valve

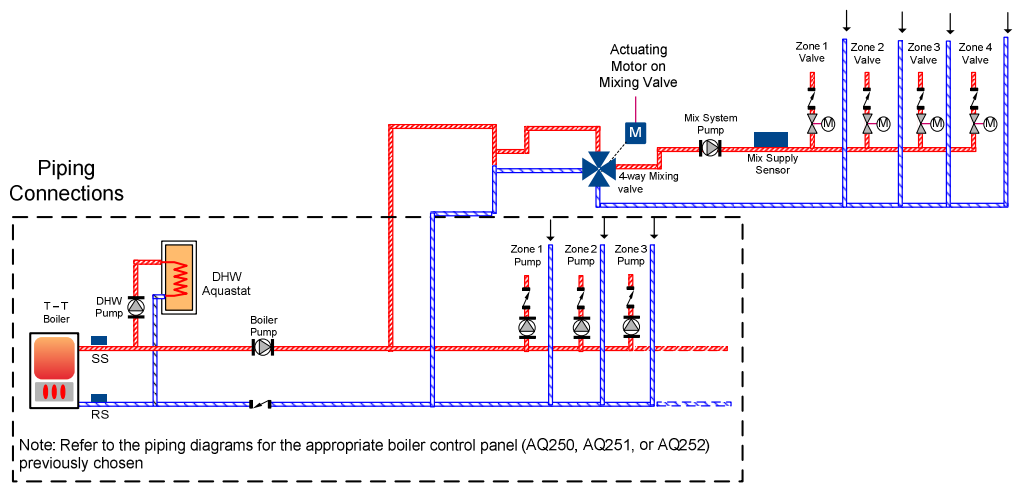
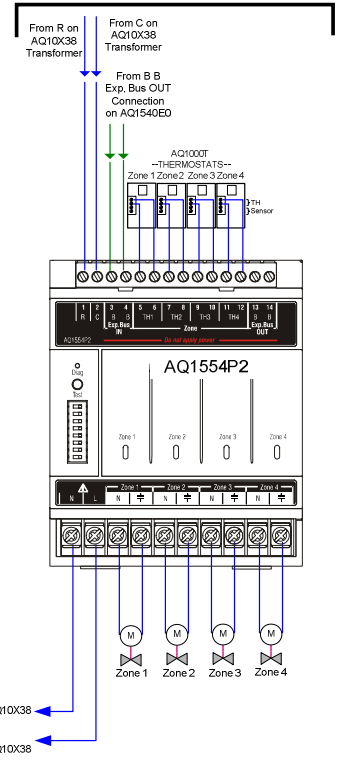
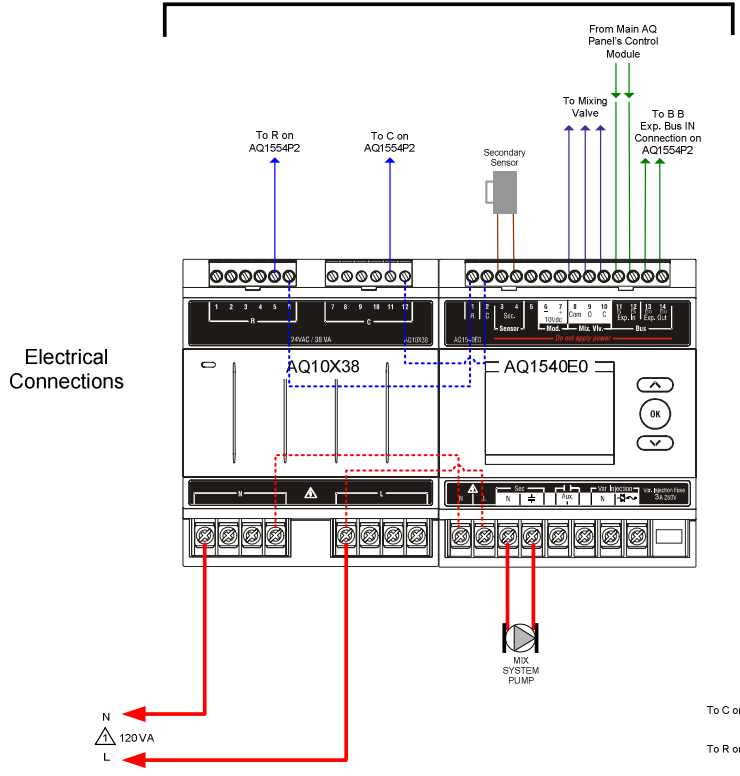
- DS05
- DS06

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AQ2541E0 + AQ2554P2X (Valves)

AQ2541E0

AQ2554P2X



Legend

- - - - - Factory Wiring (low voltage)
- - - - - Factory Wiring (line voltage)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

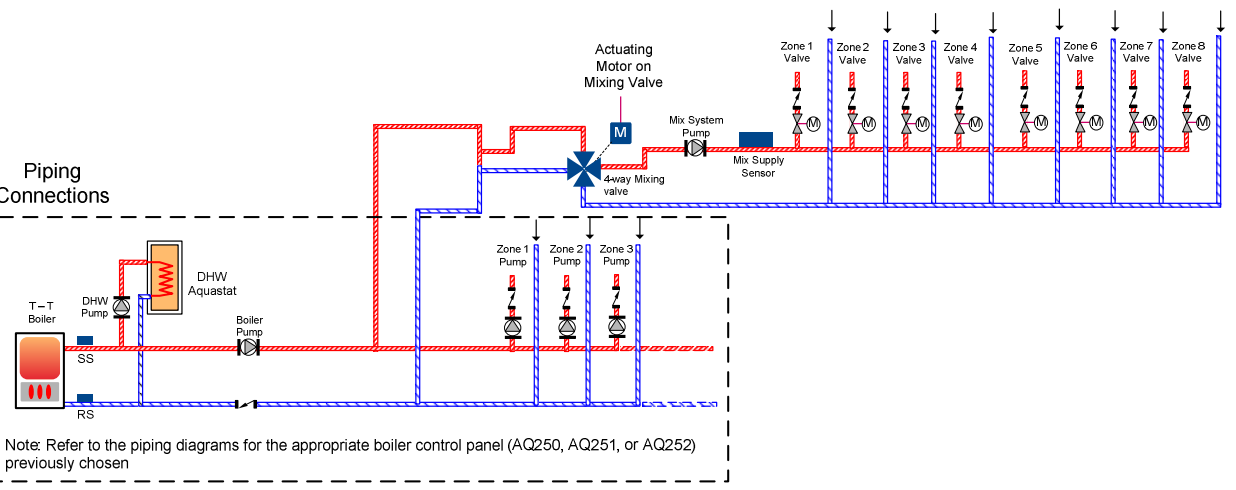
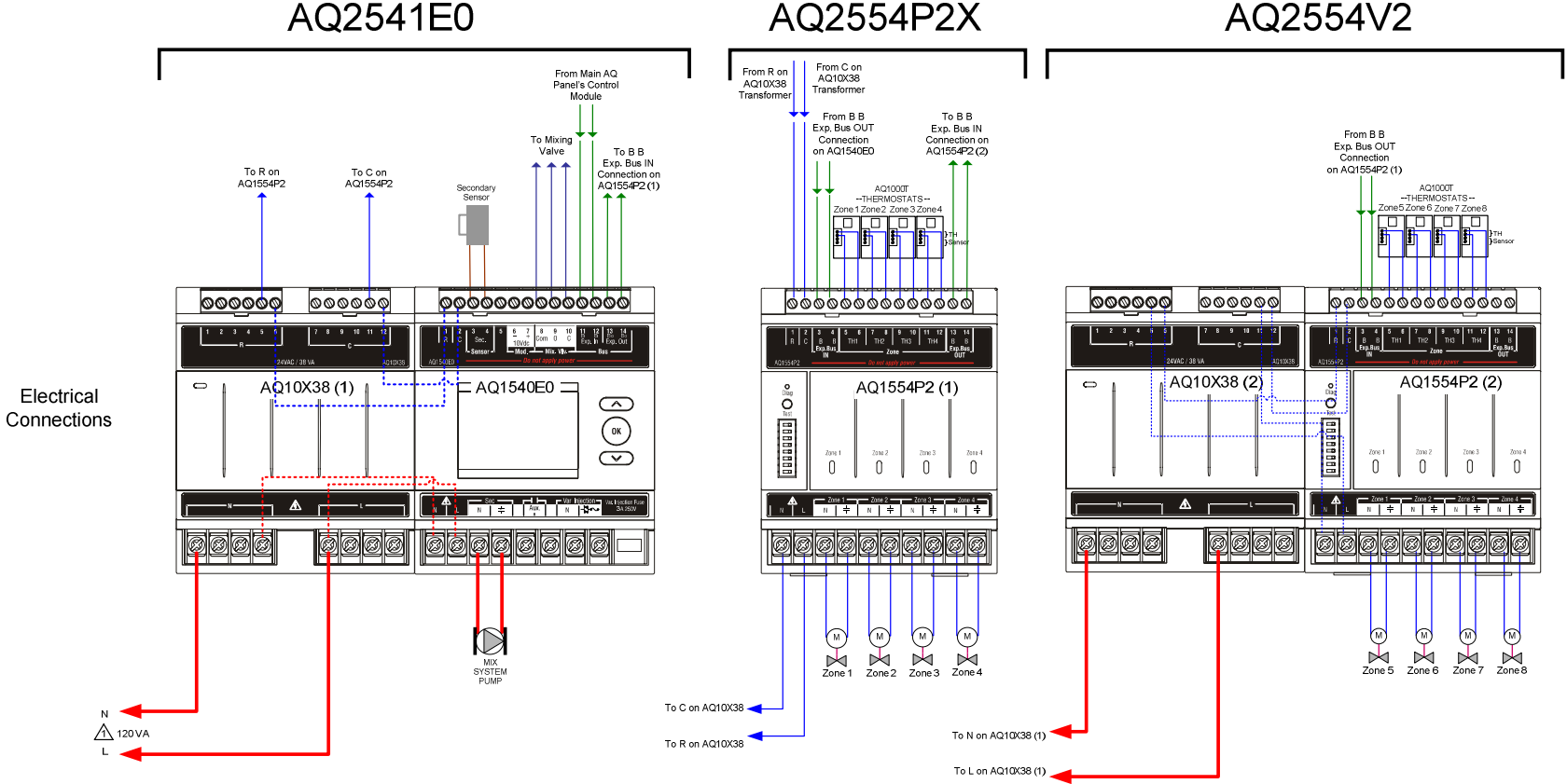
Parts	Quantity
AQ252M2	1
AQ2554P2X	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043A	4
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

- Air Eliminator*
- PV Series
- Expansion Tank or Combo Kit*
- TK Series
- Boiler Fill Valve & Back Flow Preventer*
- FM911
- Differential Pressure Regulator*
- D146 Series
- Radiant Mixing Valve*
- AM Radiant Series
- Supply/Return Manifolds*
- RM & SZ Series
- Ball Valves (Water Shutoff)*
- B200 Series

- Potable Controls**
- Thermostatic Mixing Valve*
- AM Series
 - AMX Series
- Pressure Reducing Valve*
- DS05
 - DS06

Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen

AQ2541E0 + AQ2554P2X + AQ2554V2



Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen

Legend	
---	Factory Wiring (low voltage)
---	Factory Wiring (line voltage)
---	Field Wiring (low voltage)
---	Field Wiring (line voltage)
---	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

BILL OF MATERIAL

Parts	Quantity
AQ2541E0	1
AQ2554P2X	1
AQ2554V2	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043A	8
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

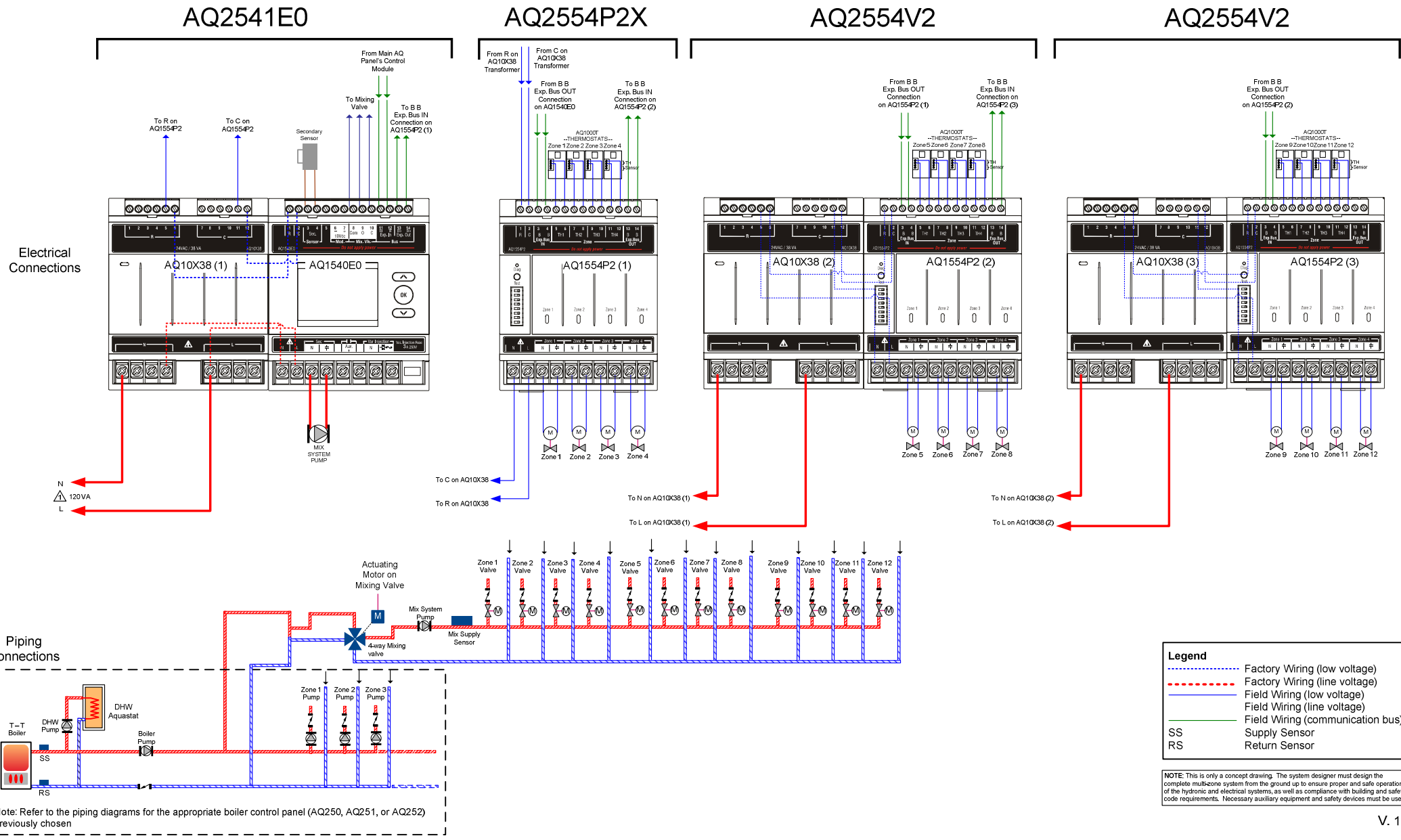
Hydronic Controls

- Air Eliminator*
 - PV Series
- Expansion Tank or Combo Kit*
 - TK Series
- Boiler Fill Valve & Back Flow Preventer*
 - FM911
- Differential Pressure Regulator*
 - D146 Series
- Radiant Mixing Valve*
 - AM Radiant Series
- Supply/Return Manifolds*
 - RM & SZ Series
- Ball Valves (Water Shutoff)*
 - B200 Series

Potable Controls

- Thermostatic Mixing Valve*
 - AM Series
 - AMX Series
- Pressure Reducing Valve*
 - DS05
 - DS06

AQ2541E0 + AQ2554P2X + AQ2554V2 (2)



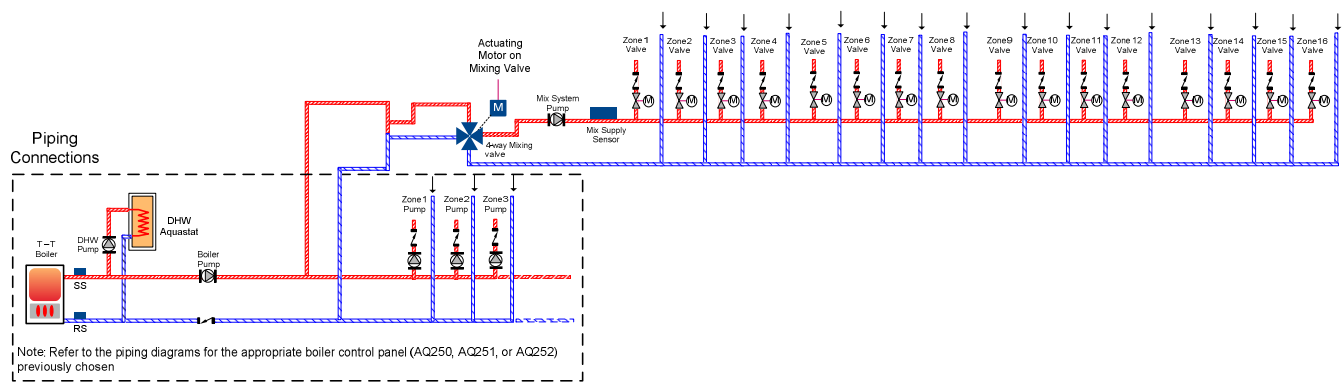
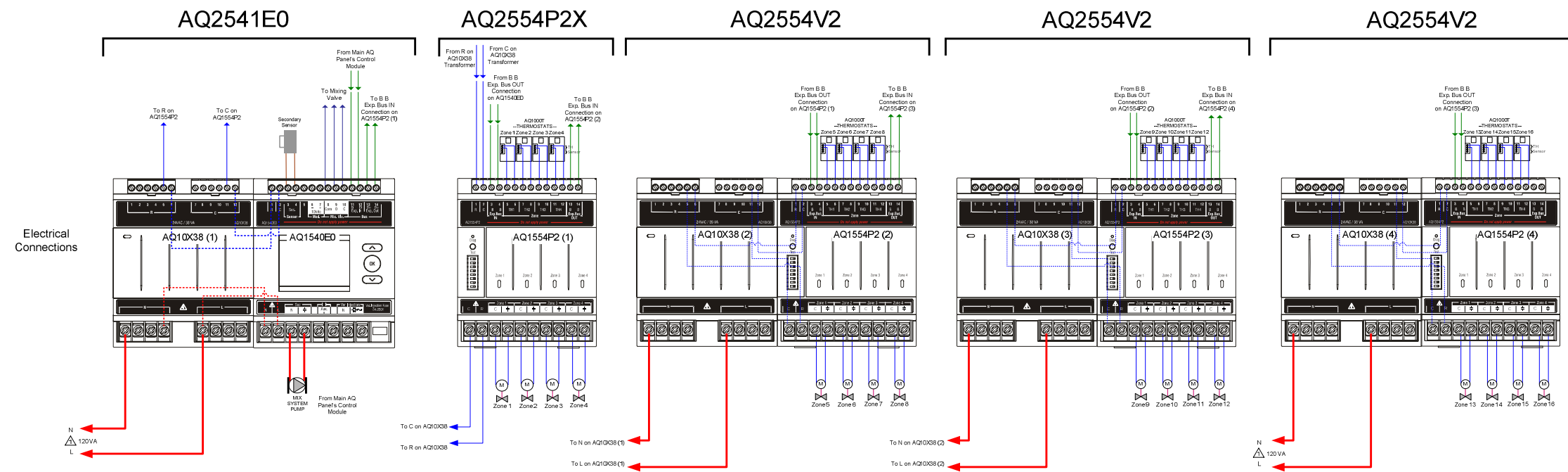
BILL OF MATERIAL	
Parts	Quantity
AQ2541E0	1
AQ2554P2X	1
AQ2554V2	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043A	12
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

- Hydronic Controls**
- Air Eliminator**
 - PV Series
 - Expansion Tank or Combo Kit**
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer**
 - FM911
 - Differential Pressure Regulator**
 - D146 Series
 - Radiant Mixing Valve**
 - AM Radiant Series
 - Supply/Return Manifolds**
 - RM & SZ Series
 - Ball Valves (Water Shutoff)**
 - B200 Series
- Potable Controls**
- Thermostatic Mixing Valve**
 - AM Series
 - AMX Series
 - Pressure Reducing Valve**
 - DS05
 - DS06

Legend	
	Factory Wiring (low voltage)
	Factory Wiring (line voltage)
	Field Wiring (low voltage)
	Field Wiring (line voltage)
	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

AQ2541E0 + AQ2554P2X + AQ2554V2 (3)



Legend	
--- (dotted blue)	Factory Wiring (low voltage)
--- (dotted red)	Factory Wiring (line voltage)
--- (solid blue)	Field Wiring (low voltage)
--- (solid red)	Field Wiring (line voltage)
--- (solid green)	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multizone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen

BILL OF MATERIAL	
Parts	Quantity
AQ2541E0	1
AQ2554P2X	1
AQ2554V2	3
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE VALVES • V8043A	16
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

- Suggested Accessories Available from Honeywell:**
- Hydronic Controls**
 - Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series
 - Potable Controls**
 - Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06

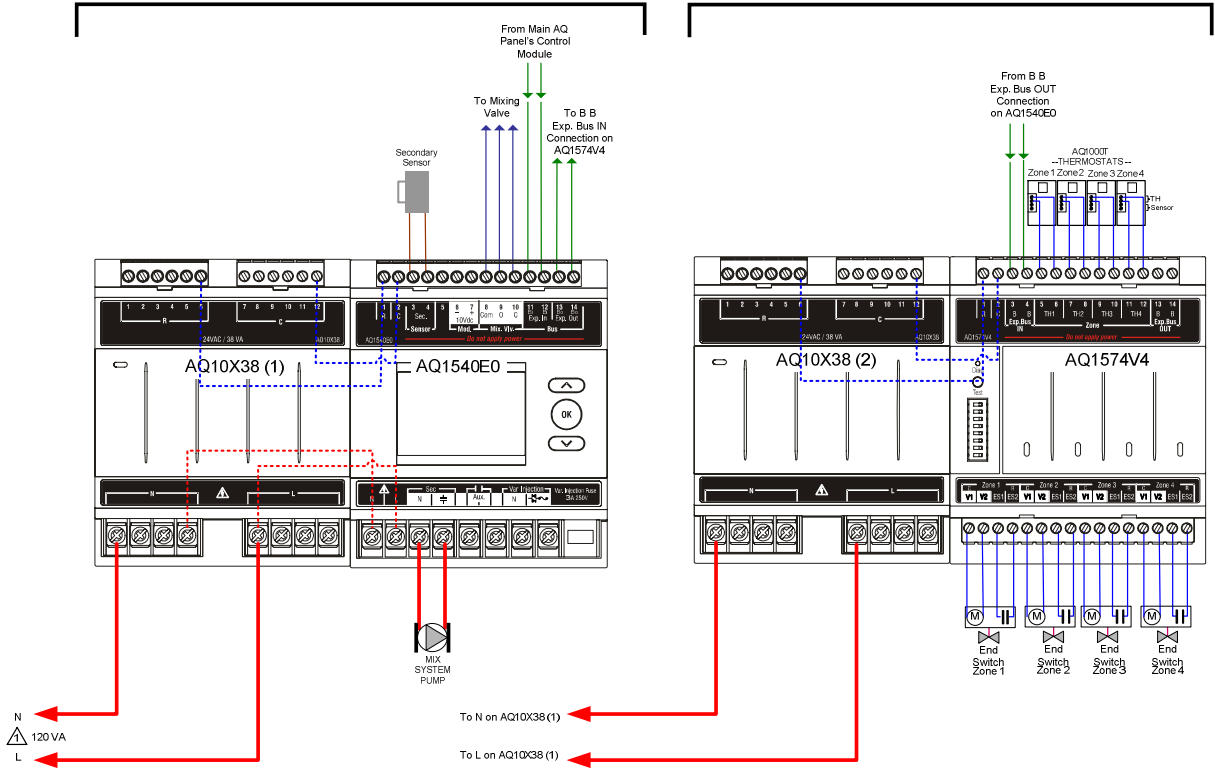
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AQ2541E0 + AQ2574V4

AQ2541E0

AQ2574V4



BILL OF MATERIAL

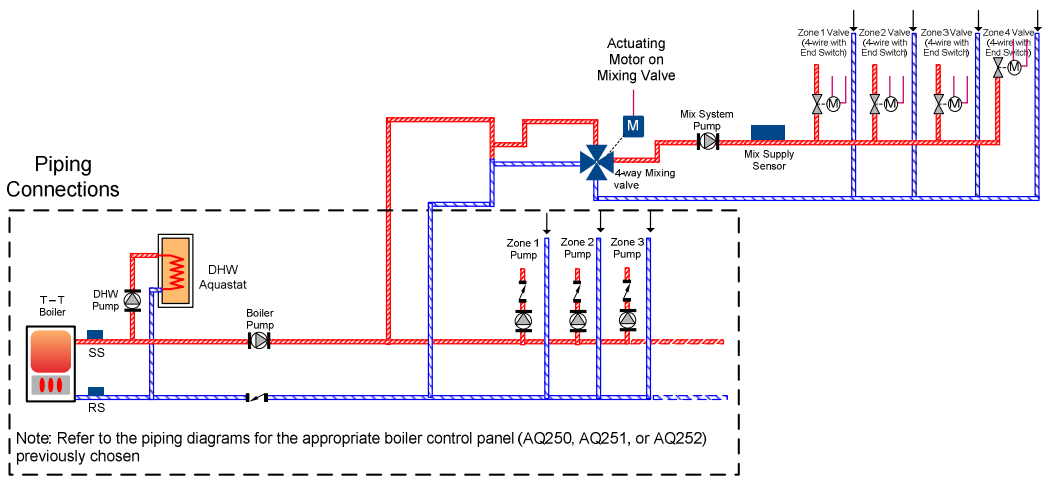
Parts	Quantity
AQ2541E0	1
AQ2574V4	1
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	4
ZONE VALVES - V8043E/F	4
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Hydronic Controls

- Air Eliminator*
 - PV Series
- Expansion Tank or Combo Kit*
 - TK Series
- Boiler Fill Valve & Back Flow Preventer*
 - FM911
- Differential Pressure Regulator*
 - D146 Series
- Radiant Mixing Valve*
 - AM Radiant Series
- Supply/Return Manifolds*
 - RM & SZ Series
- Ball Valves (Water Shutoff)*
 - B200 Series

Potable Controls

- Thermostatic Mixing Valve*
 - AM Series
 - AMX Series
- Pressure Reducing Valve*
 - DS05
 - DS06



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS** Supply Sensor
- RS** Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

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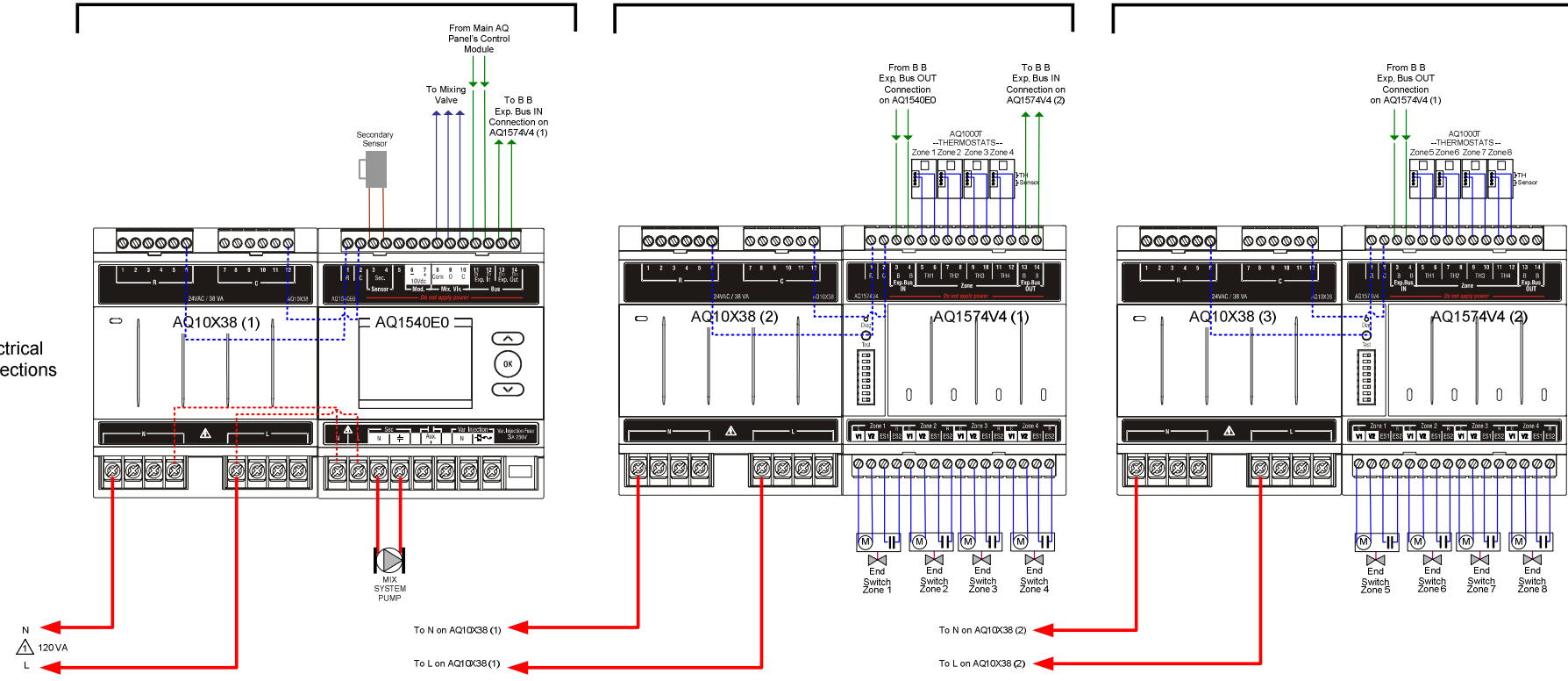
AQ2541E0 + AQ2574V4 (2)

AQ2541E0

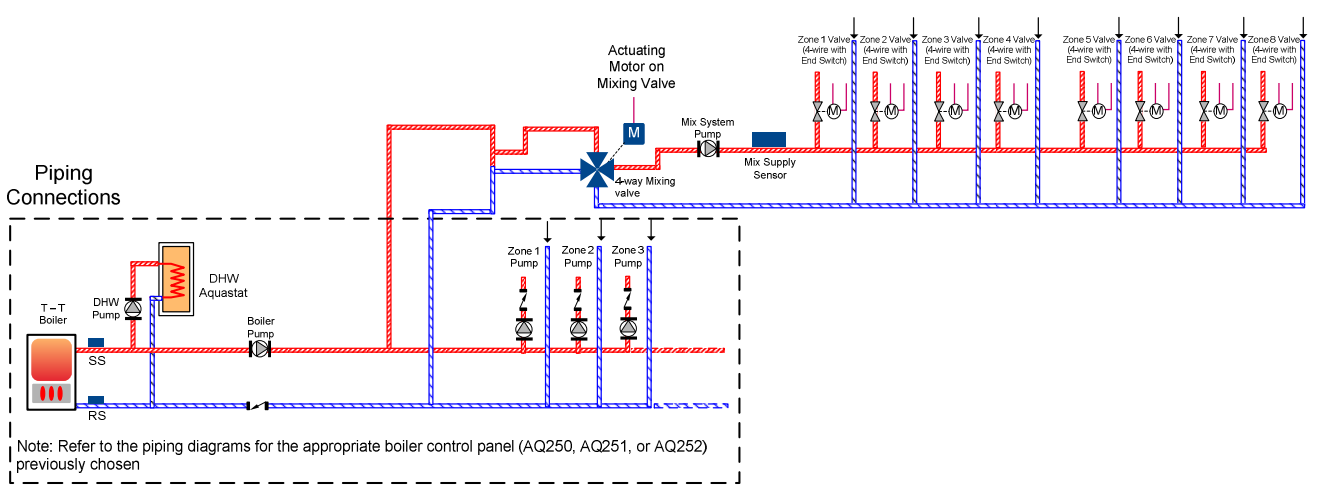
AQ2574V4

AQ2574V4

Electrical Connections



Piping Connections



Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen

BILL OF MATERIAL

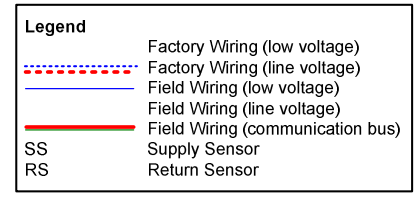
Parts	Quantity
AQ2541E0	1
AQ2574V4	2
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	8
ZONE VALVES - V8043E/F	8
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

Hydronic Controls

- Air Eliminator**
 - PV Series
- Expansion Tank or Combo Kit**
 - TK Series
- Boiler Fill Valve & Back Flow Preventer**
 - FM911
- Differential Pressure Regulator**
 - D146 Series
- Radiant Mixing Valve**
 - AM Radiant Series
- Supply/Return Manifolds**
 - RM & SZ Series
- Ball Valves (Water Shutoff)**
 - B200 Series

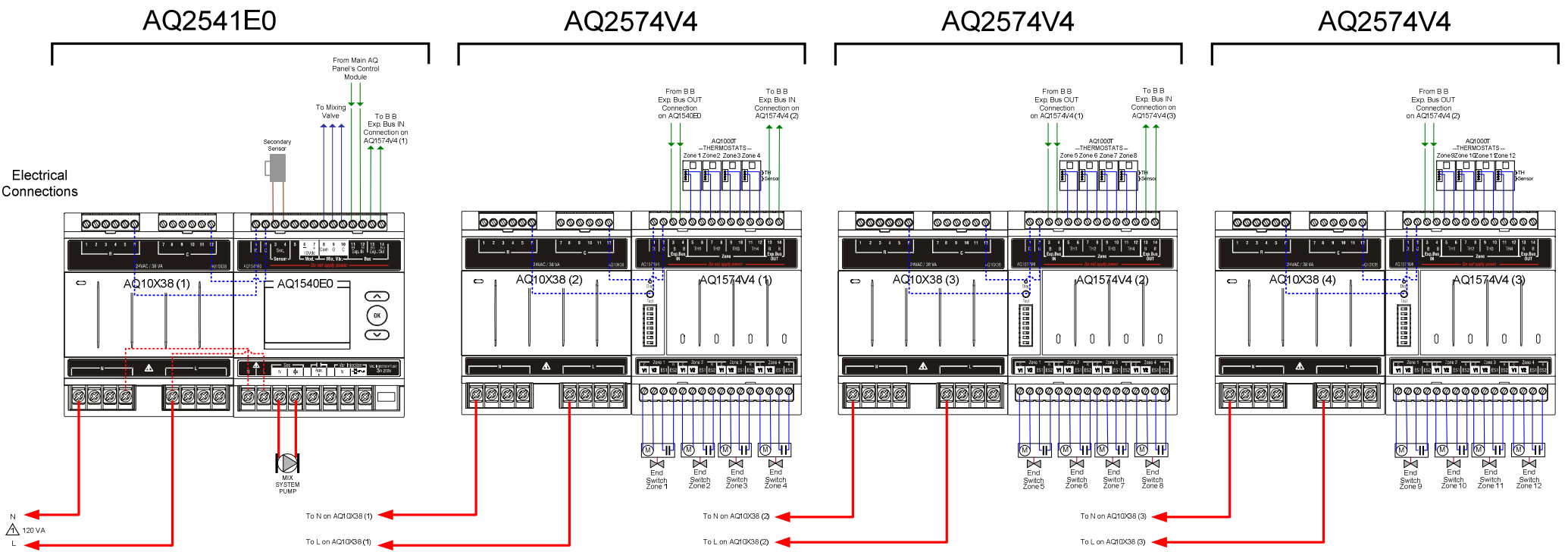
Potable Controls

- Thermostatic Mixing Valve**
 - AM Series
 - AMX Series
- Pressure Reducing Valve**
 - DS05
 - DS06



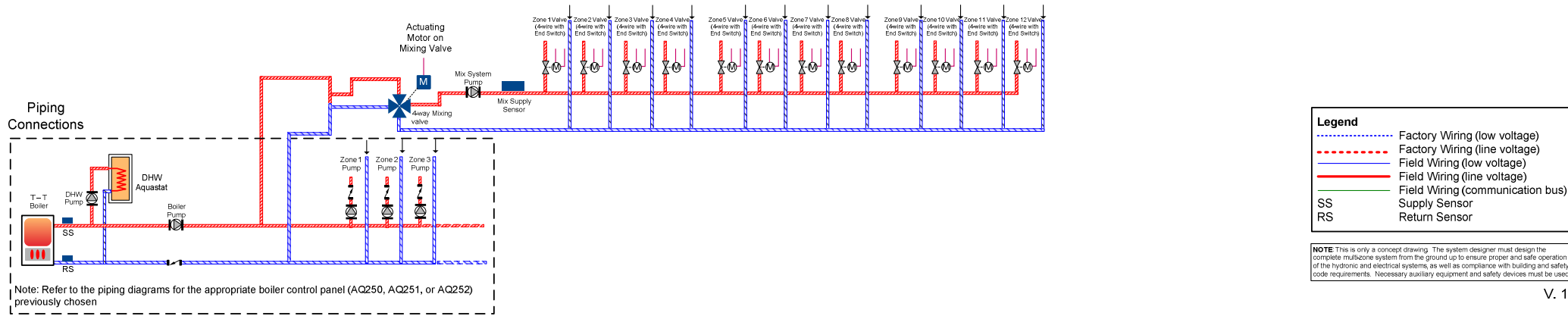
NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

AQ2541E0 + AQ2574V4 (3)



Part	Quantity
AQ2541E0	1
AQ2574V4	3
AQ1000TN2 non-programmable or AQ1000TP2 programmable thermostat	12
ZONE VALVES - V8043E/F	12
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

- Hydronic Controls**
- Air Eliminator
 - PV Series
 - Expansion Tank or Combo Kit
 - TK Series
 - Boiler Fill Valve & Back Flow Preventer
 - FM911
 - Differential Pressure Regulator
 - D146 Series
 - Radiant Mixing Valve
 - AM Radiant Series
 - Supply/Return Manifolds
 - RM & SZ Series
 - Ball Valves (Water Shutoff)
 - B200 Series
- Potable Controls**
- Thermostatic Mixing Valve
 - AM Series
 - AMX Series
 - Pressure Reducing Valve
 - DS05
 - DS06



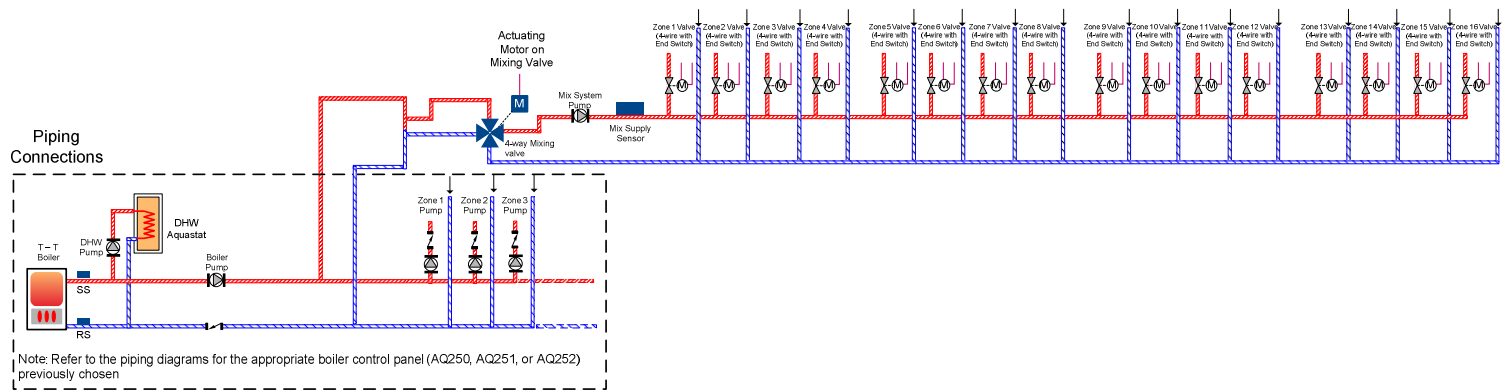
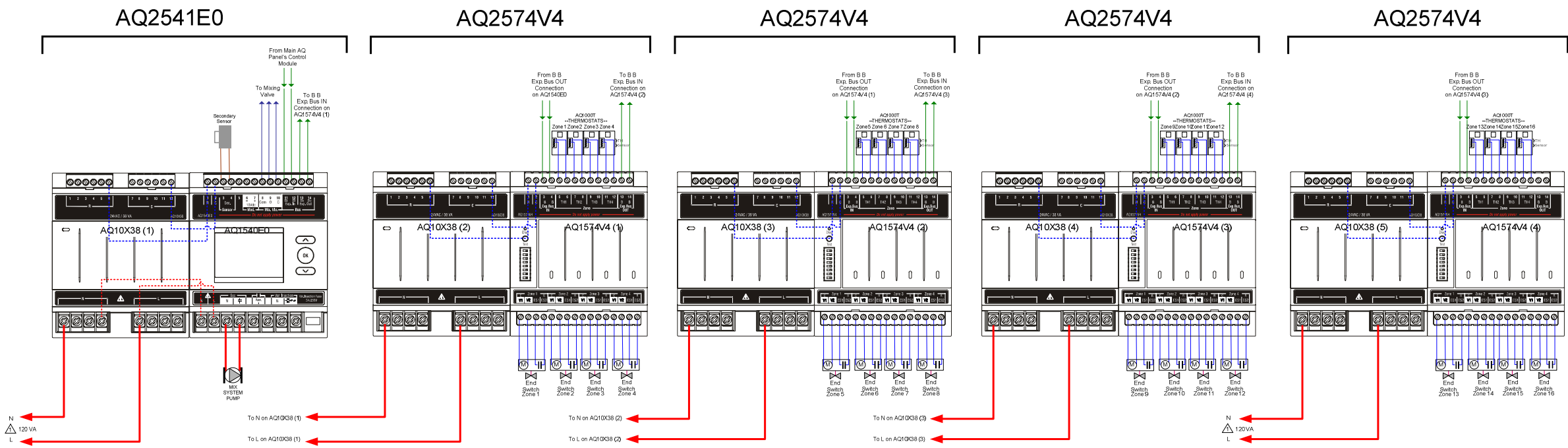
Legend	
.....	Factory Wiring (low voltage)
-----	Factory Wiring (line voltage)
.....	Field Wiring (low voltage)
-----	Field Wiring (line voltage)
.....	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

Note: Refer to the piping diagrams for the appropriate boiler control panel (AQ250, AQ251, or AQ252) previously chosen

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AQ2541E0 + AQ2574V4 (4)



Legend	
.....	Factory Wiring (low voltage)
-----	Factory Wiring (line voltage)
.....	Field Wiring (low voltage)
-----	Field Wiring (line voltage)
.....	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE This is only a concept drawing. The system designer must design the complete multizone system from the ground up to ensure proper and safe operation of the hydraulic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

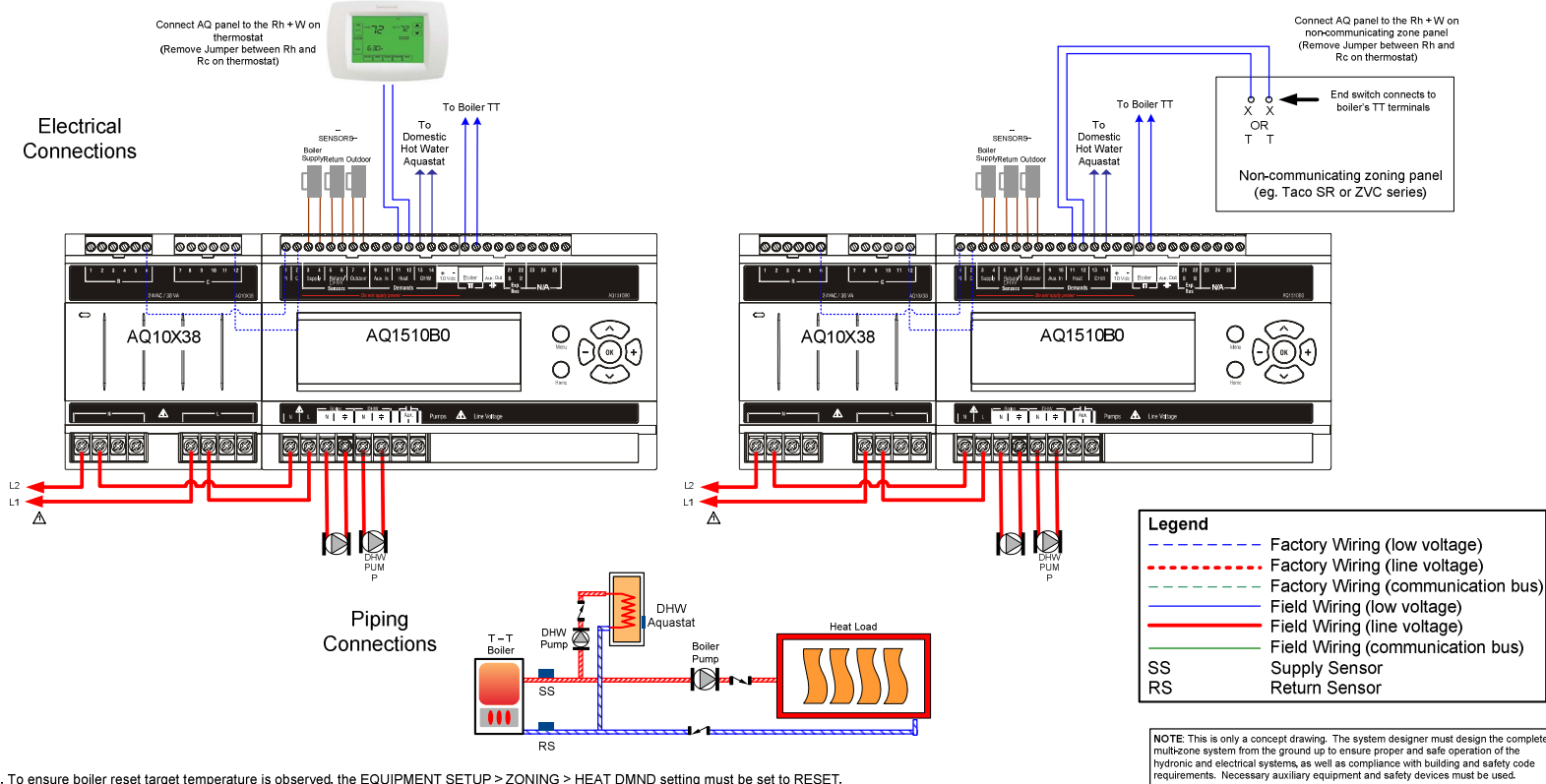
BILL OF MATERIAL	
Parts	Quantity
AQ2541E0	1
AQ2574V4	4
AQ1000Tn2 non-programmable or AQ1000TP2 programmable thermostat	16
ZONE VALVES • V8043E/F	16
MIXING PUMP	1
MIXING VALVE	1
M6063A4007 ACTUATOR FOR V5442N	1
V5442N SERIES 4-WAY MIXING VALVE	1

- Suggested Accessories Available from Honeywell:**
- | | |
|---|---------------------------|
| Hydronic Controls | Potable Controls |
| Air Eliminator | Thermostatic Mixing Valve |
| • PV Series | • AM Series |
| Expansion Tank or Combo Kit | • AMX Series |
| • TK Series | Pressure Reducing Valve |
| Boiler Fill Valve & Back Flow Preventer | • DS05 |
| • FM911 | • DS06 |
| Differential Pressure Regulator | |
| • D146 Series | |
| Radiant Mixing Valve | |
| • AM Radiant Series | |
| Supply/Return Manifolds | |
| • RM & SZ Series | |
| Ball Valves (Water Shutoff) | |
| • B200 Series | |

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Wiring Diagram for AQ2511B0 Boiler Reset Panel Connected to a Non-communicating Thermostat or Zone Relay Panel

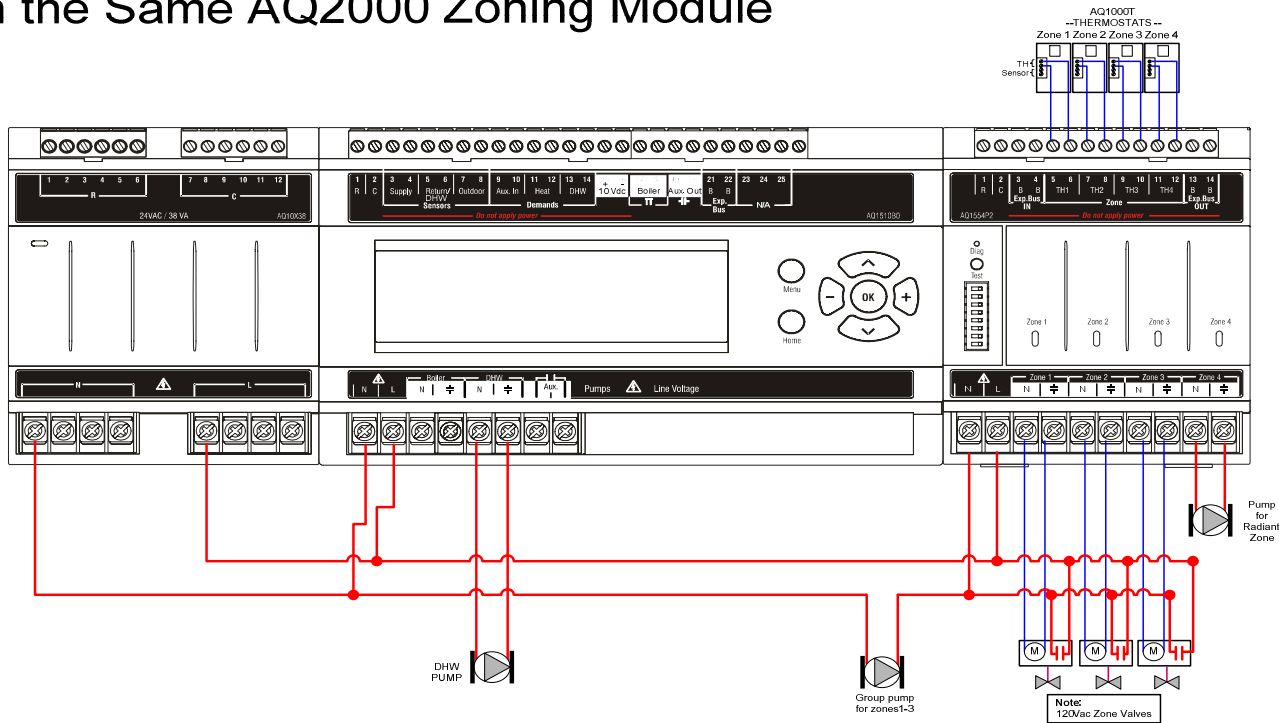


Note: 1. To ensure boiler reset target temperature is observed, the EQUIPMENT SETUP > ZONING > HEAT DMND setting must be set to RESET.
2. Installation requires that a non-communicating (switch closure) thermostat or zone relay panel be connected to the HEAT input terminals (11 and 12) of the AQ2511B0.

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Combining Pump and Valve Zoning on the Same AQ2000 Zoning Module

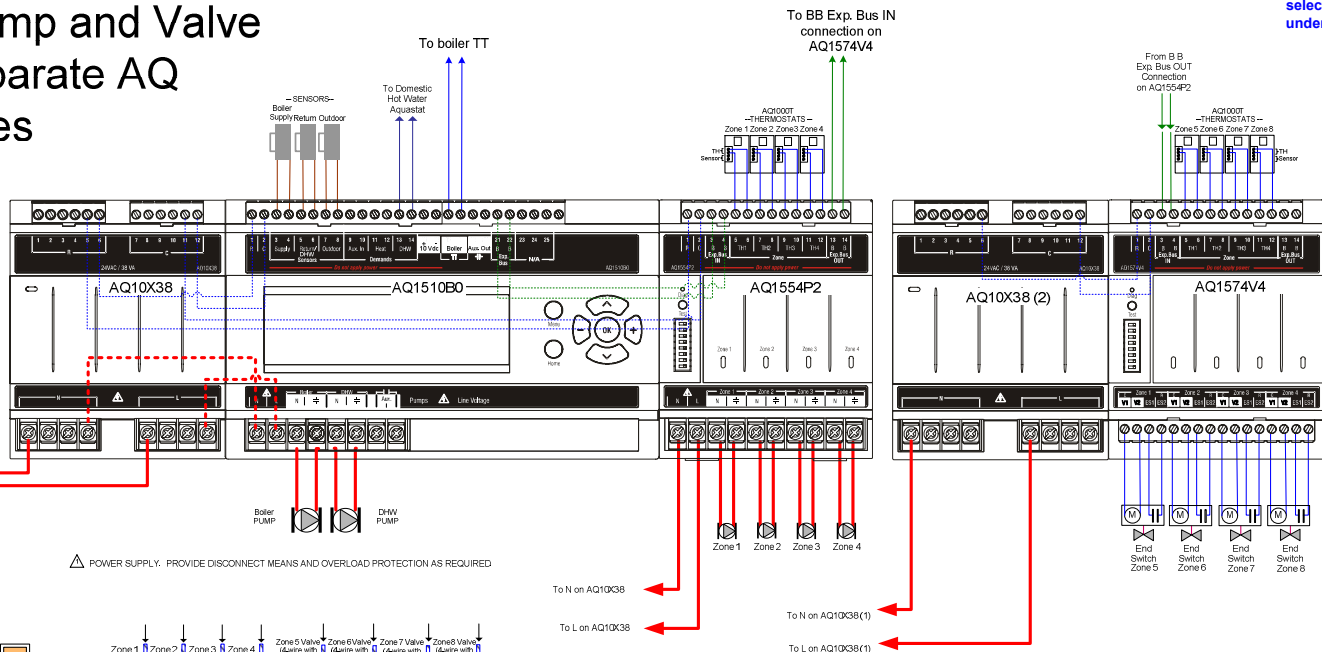


1. This installation requires line voltage zone valves with end switches. Designer to choose a valve with suitable Cv
2. AQ1000 thermostat on a zone valve zone calls, which energizes the motor of its zone valve
3. When fully open, the zone valve end switch “makes”, energizing the zone valve “group pump”
4. DO NOT use the AUX.PUMP contacts to energize the zone valve group pump for this configuration
5. Set Zoning Module DIP switch # 5 to “VALVE” position and set zone valve opening time (“EQUIPMENT SETUP>ZONING>ZONE VALVES TIME TO OPEN”) appropriate to the zone valves selected e.g. 10 seconds for electric valves; 3-4 minutes for heat motor valves
6. Do not need a BOILER pump connected
7. With this design, the group pump is energized ONLY when one or more of the zone valves is fully open. There is no interference between the pump on the radiant zone and the group pump or its zone valves
8. Requires an AQ2514B2 (NOT an AQ2514B4)

Note: This wiring configuration can be used with any programmable AQ2000 Control Panel (AQ25A, AQ251, or AQ252). AQ2514B2 shown.

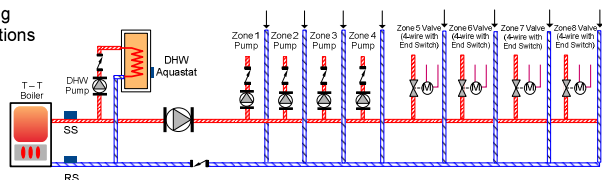
Combining Pump and Valve Zoning on Separate AQ Zoning Modules

Electrical Connections



△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multizone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

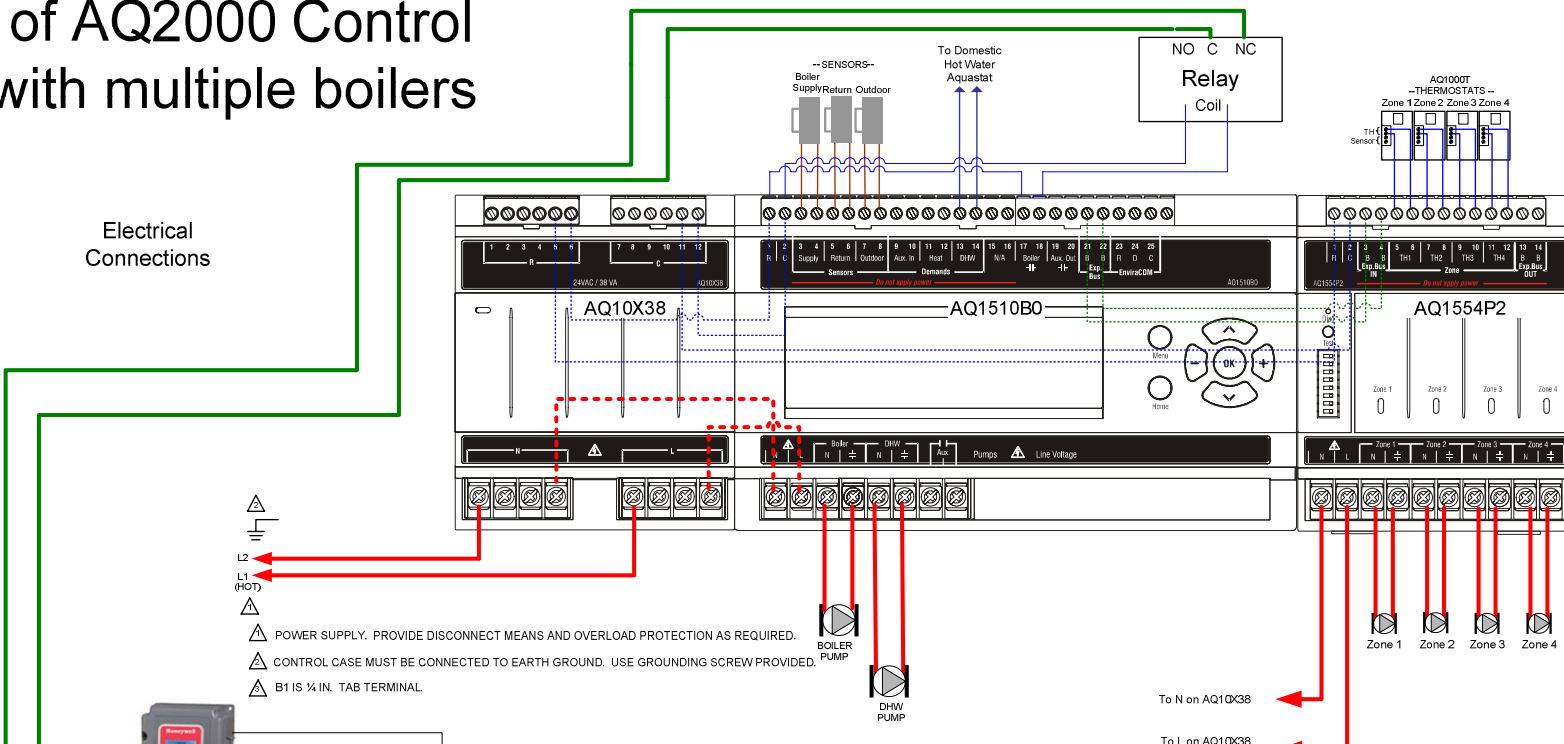
Note: When zoning with BOTH pumps and valves, it is more convenient to install pump zoning module closest to the boiler control module, keeping the line voltage feed wires to the pump zoning module **INSIDE** the AQ2000 panel enclosure

Note: This wiring configuration can be used with any AQ2000 Control Panel and Expansion Zoning Panel. AQ2514B2 and AQ2574V4 shown.

Wiring of AQ2000 Control Panel with multiple boilers

← BACK TO SPECIAL WIRING DIAGRAMS

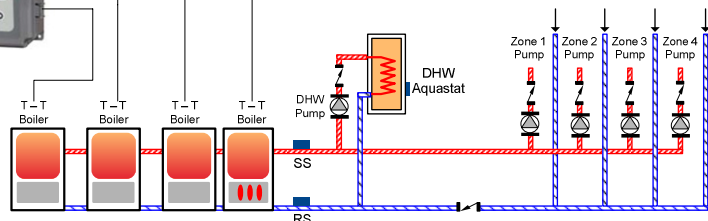
Electrical Connections



- ⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.
- ⚠ CONTROL CASE MUST BE CONNECTED TO EARTH GROUND. USE GROUNDING SCREW PROVIDED.
- ⚠ B1 IS 1/4 IN. TAB TERMINAL.

T775P
Digital Input from C and NC on relay
Contacts open to enable T775
Mount and program per T775
instructions
Wire per T775 instructions for Boiler controls

Piping Connections



Legend

- Factory Wiring (low voltage)
- Factory Wiring (line voltage)
- Factory Wiring (communication bus)
- Field Wiring (low voltage)
- Field Wiring (line voltage)
- Field Wiring (communication bus)
- SS Supply Sensor
- RS Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

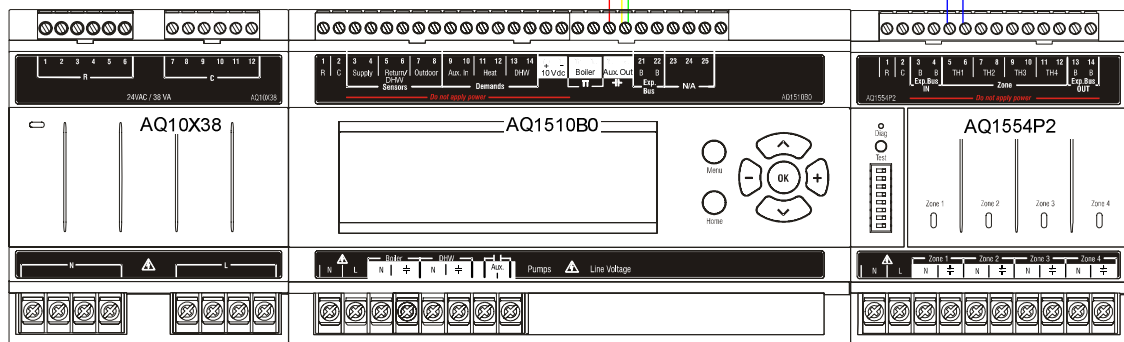
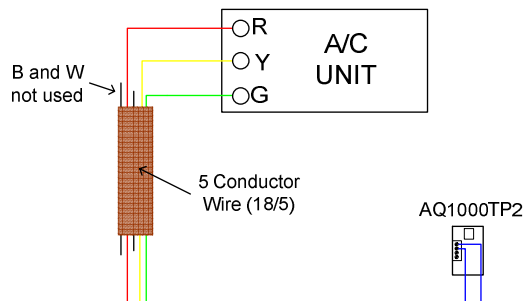
Note: This wiring configuration can be used with any programmable AQ2000 Control Panel (AQ25A, AQ251, or AQ252). AQ2514B2 shown.

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AQ2000 Control Panel Wiring for One Zone of AC

Note:
With this wiring, the system fan will always run when the compressor is running



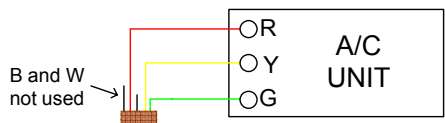
Note: This wiring configuration can be used with any programmable AQ2000 Control Panel (AQ25A, AQ251, or AQ252). AQ2514B2 shown.

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To print on legal size paper, select Properties → Advanced under Paper Size, select Legal.

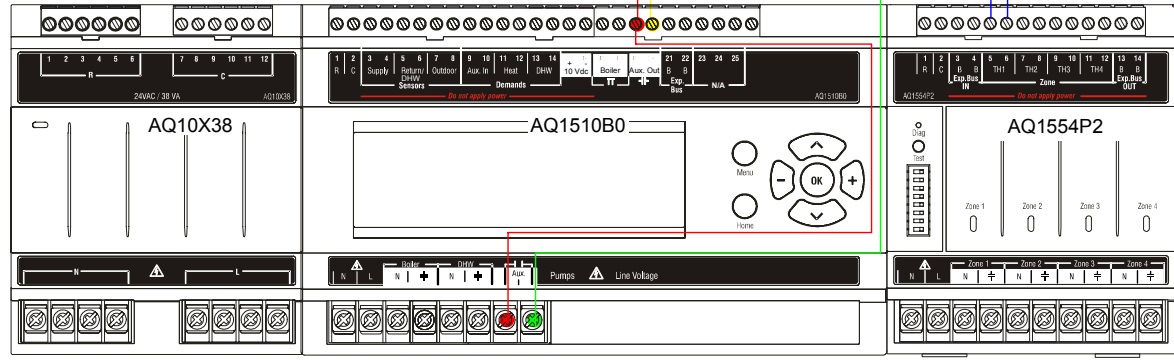
AQ2000 Control Panel Wiring for One Zone of AC With Fan

This option gives the user the possibility of controlling the fan from an AQ1000TP2 programmable thermostat without having the compressor running. Cable segregation should be applied on the Red and Green wires because of the presence of Line voltage on the other bottom terminals.



5 Conductor Wire (18/5)

AQ1000TP2



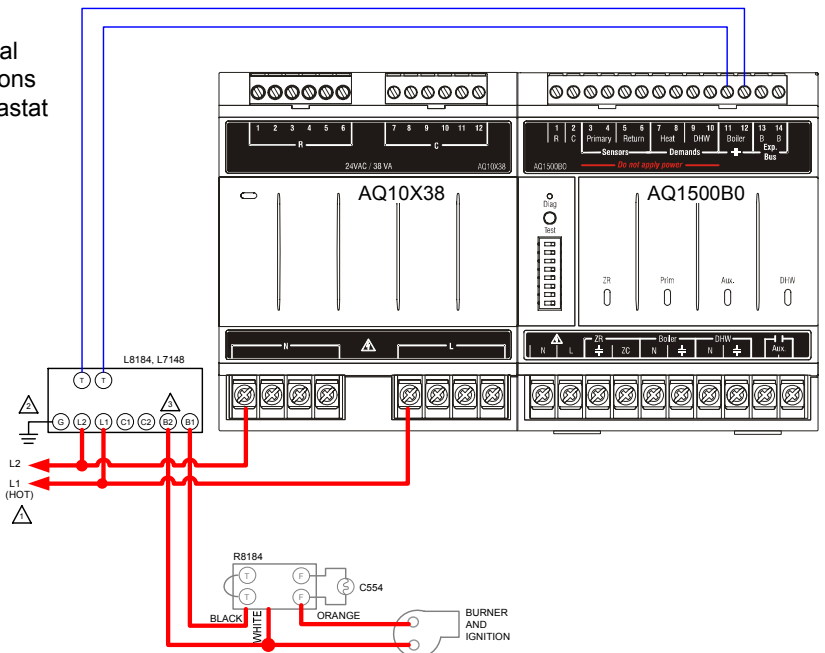
Note: This wiring configuration can be used with any programmable AQ2000 Control Panel (AQ25A, AQ251, or AQ252). AQ2514B2 shown.

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To print on legal size paper, select Properties → Advanced under Paper Size, select Legal.

AQ2000 Control Panel Wiring To Oil Aquastat

Electrical Connections to Oil Aquastat



- △ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.
- △ CONTROL CASE MUST BE CONNECTED TO EARTH GROUND. USE GROUNDING SCREW PROVIDED.
- △ B1 IS ¼ IN. TAB TERMINAL.

Note: This wiring configuration can be used with any AQ2000 Control Panel (AQ250, AQ25A, AQ251, AQ252). AQ250 shown.

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Wiring Diagram for using a 24V zone valve on DHW loop

Wire Run & Steps

- ① Run 18/2 wire – from AQ boiler control modul to TT wires on boiler
- ② Wire supply and return sensors
- ③ Wire the aquastat on DHW if used

Step 1: Move AQ2000 panel's voltage separator to left end of boiler control module

Step 2: Remove the N and L jumper feed wires from AQ10X38

Step 3: Run new 24V supply circuit from R and C terminals (on AQ10X38) to L and N terminals (on the AQ2000 boiler control module) across top and down the right side of the box (R to L; C to N). Black out "L" and "N" with permanent marker.

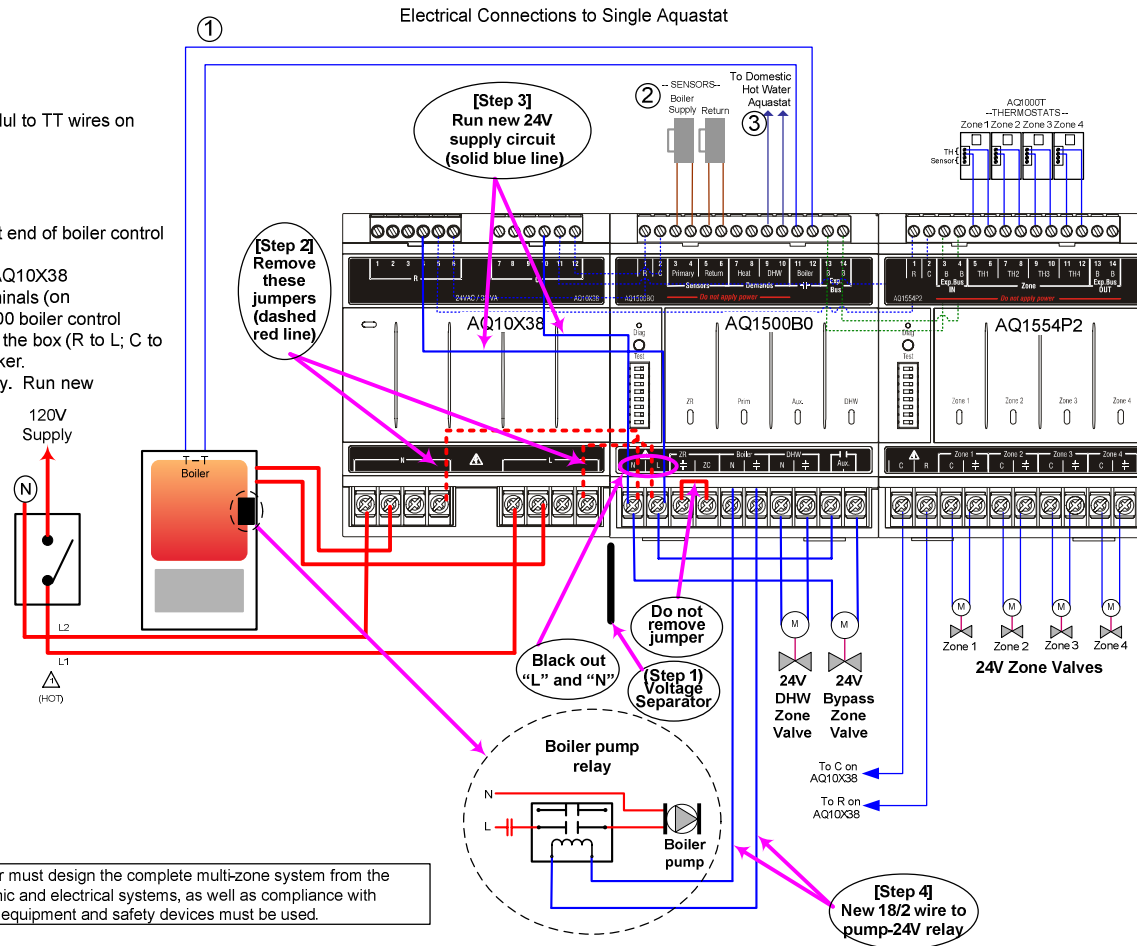
Step 4: Remove 24V supply circuit to boiler pump relay. Run new 18/2 24V control wires to pump relay.

Note: In Field Wiring to Boiler

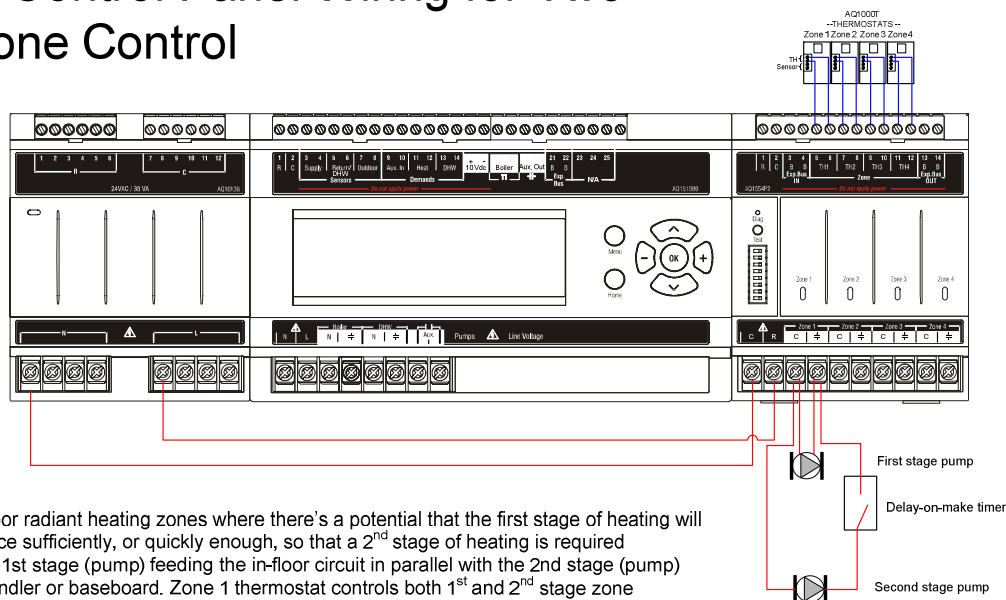
- Old:**
- 1-120V to wall switch and boiler
 - 1- 120V to AQ10X38 from boiler
 - 1-120V to boiler pump from AQ10X38
- New:**
- 1-120V AQ10X38 from wall switch
 - 1-120V to boiler box
 - 1-18/2 24V to boiler pump relay

Legend	
---	Factory Wiring (low voltage)
---	Factory Wiring (line voltage)
---	Factory Wiring (communication bus)
—	Field Wiring (low voltage)
—	Field Wiring (line voltage)
—	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.



AQ2000 Control Panel Wiring for Two Stage Zone Control



1. For use with in-floor radiant heating zones where there's a potential that the first stage of heating will not warm the space sufficiently, or quickly enough, so that a 2nd stage of heating is required
2. Connect both the 1st stage (pump) feeding the in-floor circuit in parallel with the 2nd stage (pump) feeding the air handler or baseboard. Zone 1 thermostat controls both 1st and 2nd stage zone equipment
3. In series with the power supply to the 2nd stage heating equipment, insert a "delay on make" timer with adjustable delay times (e.g. ICM model #ICM 102)
4. When the AQ Control Module permits the zone to be energized, both the 1st and 2nd stages of heating equipment are powered, but the 2nd stage equipment does not run until the "delay on make" expires
5. If the zone temperature reaches set point before the 2nd stage is brought on, the heating cycle ends, the zone outputs are de-energized, and the "delay on make" timer is reset for the next cycle

Note: The recommended length of time for the "delay on make" is 50% of the total heating cycle length e.g. for 2 cycles per hour (30 minutes cycle length), the "delay on make" time setting should be 15 minutes

Note: This wiring configuration can be used with any AQ Control Panel (AQ250, AQ25A, AQ251, or AQ252). AQ2514B2 shown.

Wiring of Single and Multiple (Averaging) Sensor Installations

Figure 1. Single Sensor Installation

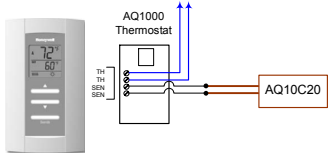


Figure 2. Sensor Averaging Installation (4 sensors)

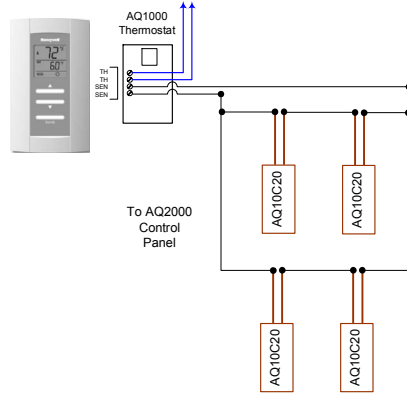
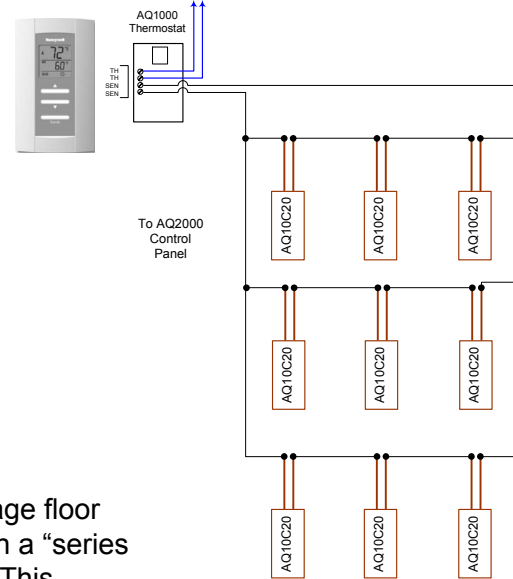


Figure 3. Sensor Averaging Installation (9 sensors)

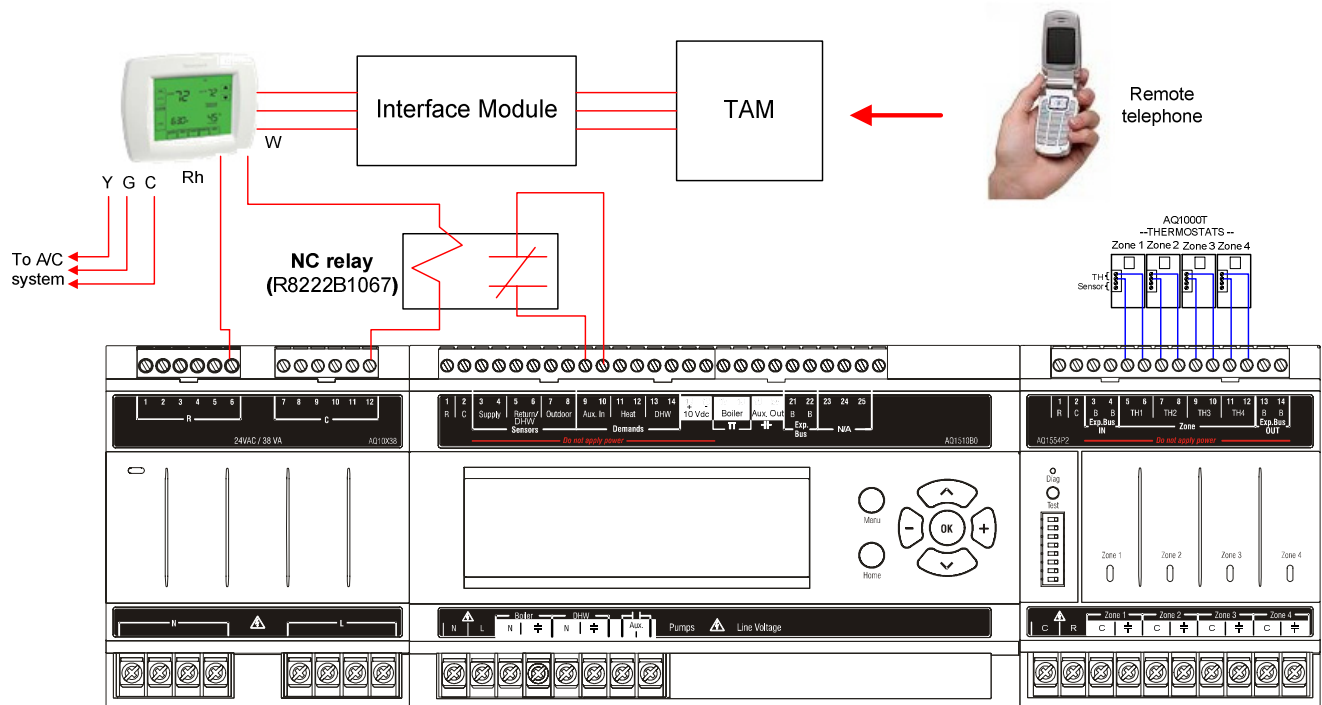


Note:

If multiple floor / slab sensors are required to obtain an average floor temperature for a large, single zone they must be arranged in a “series and parallel” wiring configuration for temperature averaging. This network consists of four or nine sensors, as shown in Figures 2 and 3

Wiring of VisionPRO IAQ and NC Relay to Aux-In

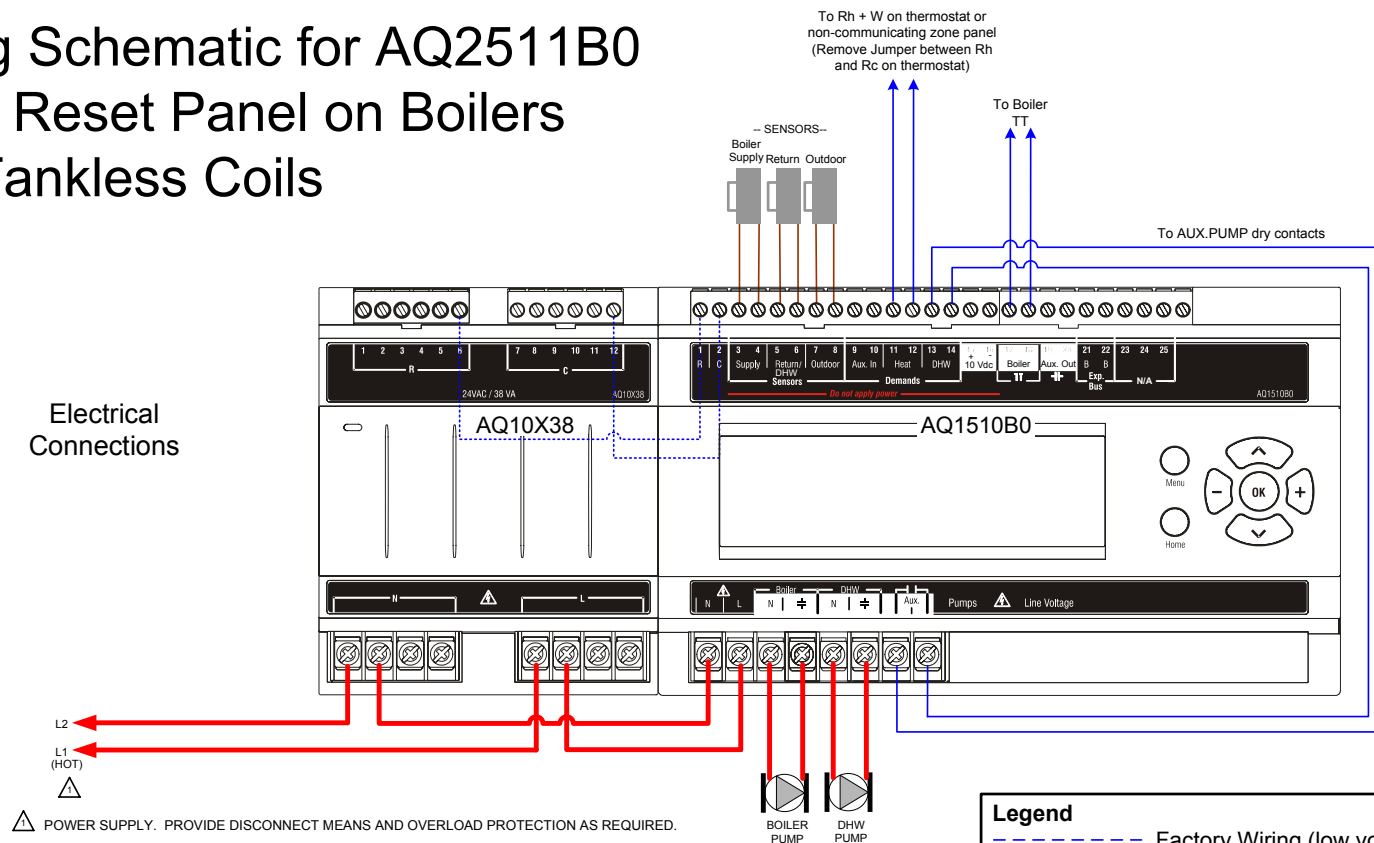
(for remote dial-in to bring system out of vacancy mode)



1. Set VisionPRO IAQ Occupied setpoint to 80 F; Vacancy setpoint to 40 F
2. Set AQ1000 zone thermostats Occupied setpoint to 68 F; Vacancy setpoint to 45 F
3. Locate the VisionPRO IAQ thermostat in an upper hallway and AQ1000 thermostats in the zones (rooms)
4. Configure the AQ251 to put system into "Vacancy setpoint" mode when its Aux.In terminals are shorted
5. Power the control circuit of the NC relay with 24VAC from the AQ10X38 transformer
6. On a call for heat from the VisionPRO IAQ, the Rh and W terminals close, powering the relay and opening the Aux.In terminals; the heating of the house is under the AQ251's control as long as the room temperature (where the VisionPRO IAQ is located) is less than 80 F
7. When the VisionPRO IAQ is put into Vacancy mode (remotely, by the TAM), the VisionPRO IAQ's setpoint is adjusted down to 40 F and it will call for heat (and its Rh and W terminals will be closed) as long as the room temperature (where the VisionPRO IAQ is located) remains 40 F or less. In this range, the AQ251 is again controlling the temperature of the zones at the Occupied setting (68 F) and will do so until the temperature of the room increases to > 40 F or above.
8. In a shoulder season, where outdoor temperature could be >40 F, the VisionPRO IAQ (with Vacancy setpoint of 40 F) will have no call for heat so its Rh

Wiring Schematic for AQ2511B0 Boiler Reset Panel on Boilers with Tankless Coils

Electrical Connections

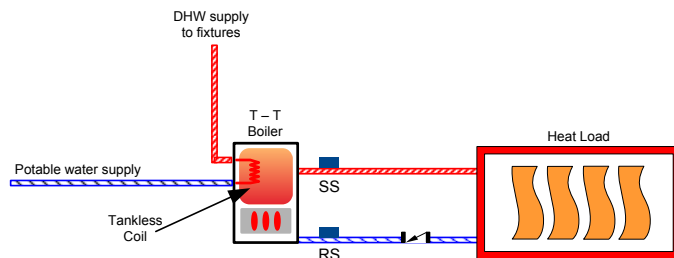


Program AUX.PUMP contacts to close when the system is in OCCUPIED mode [INSTALLER MENU > EQUIPMENT SETTINGS > AUXILIARY I/O > AUX.PUMP > OCC], Program schedule in the USER MENU > Program Settings will define when these contacts will close i.e. OCCUPIED mode = both WAKE and RETURN periods

Note: When the AQ251 is configured this way, the control will override the reset target temperature when the system is in OCCUPIED mode, the energy savings will not likely be as great as would be seen as with an Indirect DHW tank.

△ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

Piping Connections



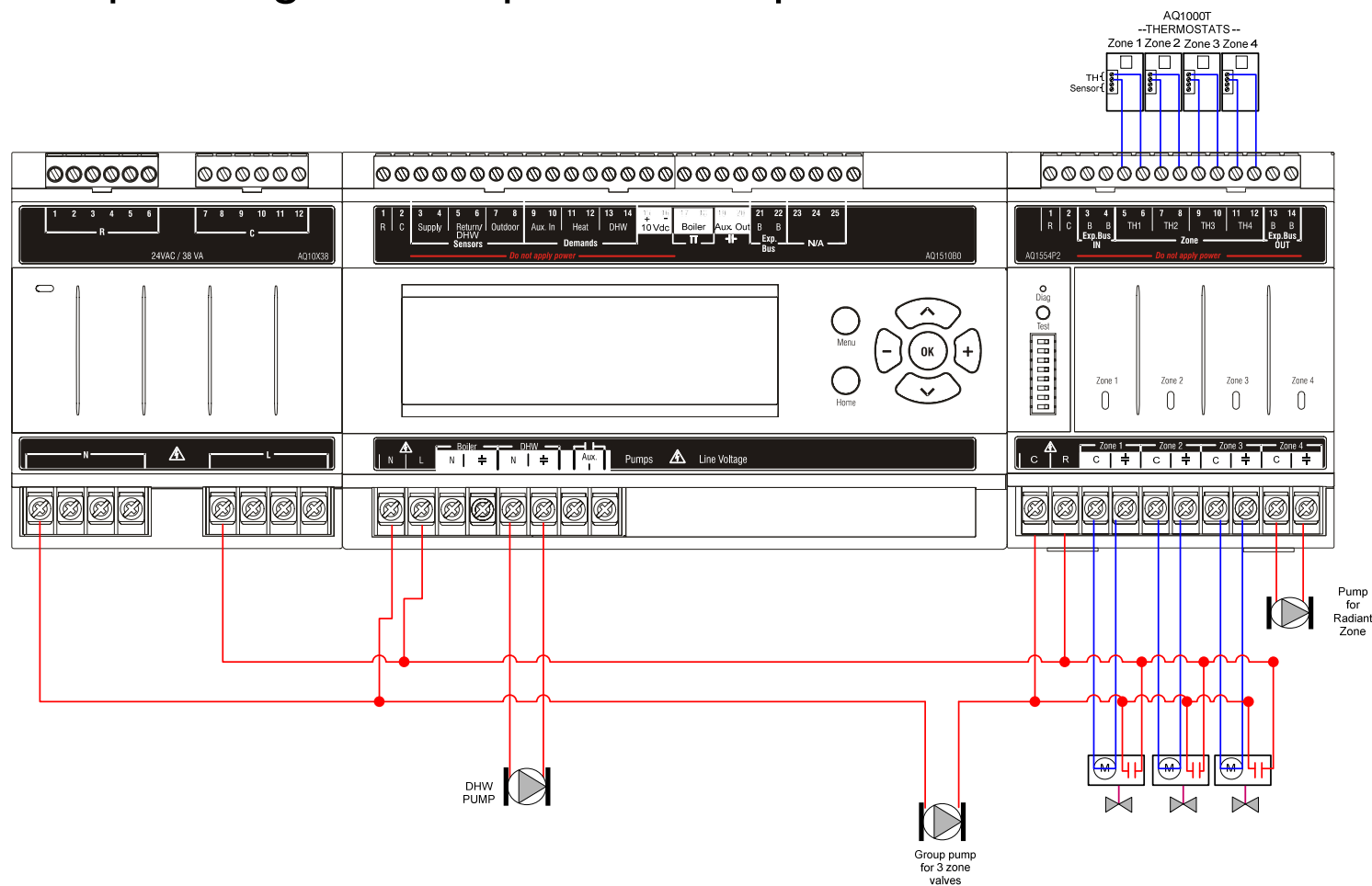
Legend	
---	Factory Wiring (low voltage)
---	Factory Wiring (line voltage)
---	Factory Wiring (communication bus)
—	Field Wiring (low voltage)
—	Field Wiring (line voltage)
—	Field Wiring (communication bus)
SS	Supply Sensor
RS	Return Sensor

NOTE: This is only a concept drawing. The system designer must design the complete multi-zone system from the ground up to ensure proper and safe operation of the hydronic and electrical systems, as well as compliance with building and safety code requirements. Necessary auxiliary equipment and safety devices must be used.

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Group Pump Wiring and Sequence of Operation



1. AQ1000 thermostat on a zone valve zone calls, which energizes the motor of its zone valve
2. When fully open, the zone valve end switch “makes”, energizing the zone valve “group pump”
3. DO NOT use the AUX.PUMP contacts to energize the zone valve group pump
4. Set Zoning Module DIP switch # 5 to “PUMP” position
5. Do not need a BOILER pump connected
6. This in installation requires line voltage zone valves with end switches. Designer to choose a valve with suitable Cv
7. With this design, the group pump is energized ONLY when one or more of the zone valves is fully open and there is not interference between the pump on the radiant zone and the group pump or its zone valves
8. Requires an AQ2514B2 (NOT an AQ2514B4)

Selection Procedure:

When using AQ2000 controls, selecting components could not be easier. All it takes are four easy steps.

1. Select whether the boiler supply water temperature is reset by the AQ control or not
2. Select zoning equipment (pumps, 2-wire valves or 4-wire valves with end switches)
3. Select number of space heating zones

4. For systems with more than 2 controlled water temperatures, each additional mixed temperature will require an AQ2541E0 expansion control panel plus sufficient zoning modules to manage the zones associated with the additional water temperature

		No Reset						Reset					
		Non-Programmable			Programmable			One system temperature			Two system temperatures		
		Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches
Zoning Module Selection	1 zone							AQ2511B0					
	2-4 zones	AQ2504B2			AQ25A4B2			AQ2514B2			AQ2524M2		
			AQ2504B2			AQ25A4B2			AQ2514B2			AQ2524M2	
	5-8 zones			AQ2504B4			AQ25A4B4			AQ2514B4			AQ2524M4
		AQ2504B2 + AQ2554P2X			AQ25A4B2 + AQ2554P2X			AQ2514B2 + AQ2554P2X			AQ2524M2 + AQ2554P2X		
			AQ2504B2 + AQ2554V2			AQ25A4B2 + AQ2554V2			AQ2514B2 + AQ2554V2			AQ2524M2 + AQ2554V2	
	9-12 zones			AQ2504B4 + AQ2574V4			AQ25A4B4 + AQ2574V4			AQ2514B4 + AQ2574V4			AQ2524M4 + AQ2574V4
		AQ2504B2 + AQ2558P2X			AQ25A4B2 + AQ2558P2X			AQ2514B2 + AQ2558P2X			AQ2524M2 + AQ2558P2X		
			AQ2504B2 + AQ2554V2 (2)			AQ25A4B2 + AQ2554V2 (2)			AQ2514B2 + AQ2554V2 (2)			AQ2524M2 + AQ2554V2 (2)	
	13-16 zones			AQ2504B4 + AQ2574V4 (2)			AQ25A4B4 + AQ2574V4 (2)			AQ2514B4 + AQ2574V4 (2)			AQ2524M4 + AQ2574V4 (2)
		AQ2504B2 + AQ2558P2X + AQ2554P2X			AQ25A4B2 + AQ2558P2X + AQ2554P2X			AQ2514B2 + AQ2558P2X + AQ2554P2X			AQ2524M2 + AQ2558P2X + AQ2554P2X		
			AQ2504B2 + AQ2554V2 (3)			AQ25A4B2 + AQ2554V2 (3)			AQ2514B2 + AQ2554V2 (3)			AQ2524M2 + AQ2554V2 (3)	
			AQ2504B4 + AQ2574V4 (3)			AQ25A4B4 + AQ2574V4 (3)			AQ2514B4 + AQ2574V4 (3)			AQ2524M4 + AQ2574V4 (3)	

[Product Selector for Additional Water Temperatures](#)

[Wiring diagram for multiple Add-A-Temperature Modules](#)

[Wiring Instructions for Special Applications](#)

NOTE:

Below are links to wiring diagrams of the AQ2000 components in Visio, AutoCAD DWG and AutoCAD DXF Formats
 Click on the applicable file format to access the diagrams' Table of Contents

*AQ2511B0 panel requires either a conventional, non-communicating thermostat OR a switching relay input. It does NOT use AQ1000 communicating thermostats

PDF version

AutoCAD DWG Version

AutoCAD DXF Version

AQ2000 Series - Hydronic Controls Product Selector

Visio Version

Selection Procedure:

When using AQ2000 controls for more than two water temperatures:

1. Select the AQ2000 panel
2. Select the quantity of expansion control panels needed using the AQ254 selection tool
3. Save the result (drawing) for each selection in a separate file.

Print out the drawings, OR - if using Visio or AutoCAD - combine them all into one system drawing

		Reset			
		One system temperature			
		Zone pumps	Zone valves without end switches	Zone valves with end switches	
Control Panel Selection	1-4 zones	AQ2541E0 + AQ2554P2X			
			AQ2541E0 + AQ2554P2X		
				AQ2541E0 + AQ2574V4	
	5-8 zones	AQ2541E0 + AQ2558P2X			
			AQ2541E0 + AQ2554P2X + AQ2554V2		
				AQ2541E0 + AQ2574V4 (2)	
	9-12 zones	AQ2541E0 + AQ2558P2X + AQ2554P2X			
			AQ2541E0 + AQ2554P2X + AQ2554V2 (2)		
				AQ2541E0 + AQ2574V4 (3)	
	13-16 zones	AQ2541E0 + AQ2558P2X (2)			
			AQ2541E0 + AQ2554P2X + AQ2554V2 (3)		
				AQ2541E0 + AQ2574V4 (4)	

[Wiring diagram for multiple Add-A-Temperature Modules](#)
[Wiring Instructions for Special Applications](#)

NOTE:

Below are diagrams of the AQ2000 components in Visio 2002, Visio 2003, AutoCAD DWG and AutoCAD DXF Format. Click on the respective version to access the diagrams' Table of Contents

PDF Version

AutoCAD DWG Version

AutoCAD DXF Version

AQ2000 Wiring Instructions for Special Applications

Visio Version

<u>AQ2511B0 Reset Panel with Connections to Non-Communicating Zoning Panel or Thermostat</u>
<u>Combining Pump and Valve Zoning on a Single Zoning Module</u>
<u>Combining Pump and Valve Zoning on Different Zoning Modules</u>
<u>AQ2000 Control Panel for use with T775 Boiler Stager (multiple boilers)</u>
<u>Programmable AQ2000 Control Panel for One Zone of AC</u>
<u>Programmable AQ2000 Control Panel for One Zone of AC with Fan</u>
<u>AQ2000 Wiring to Oil Aquastat</u>
<u>Using a 24V Zone Valve for DHW & Bypass Valves (AQ2504B2 shown)</u>
<u>Two Stage Zone Control</u>
<u>Wiring for Single and Multiple (Averaging) Sensor Installations</u>
<u>Wiring of VisionPRO IAQ and NC Relay to Aux-In</u>
<u>AQ2511B0 with Tankless Coil</u>
<u>Group Pump Wiring and Sequence of Operation</u>

[Wiring diagram for multiple Add-A-Temperature Modules](#)
[Additional Water Temperature Selector](#)

PDF Version

AutoCAD DWG Version

AutoCAD DXF Version

AQ2000 Series - Hydronic Controls Product Selector

Selection Procedure:

When using AQ2000 controls, selecting components could not be easier. All it takes are four easy steps.

1. Select whether the boiler supply water temperature is reset by the AQ control or not
2. Select zoning equipment (pumps, 2-wire valves or 4-wire valves with end switches)
3. Select number of space heating zones

4. For systems with more than 2 controlled water temperatures, each additional mixed temperature will require an AQ2541E0 expansion control panel plus sufficient zoning modules to manage the zones associated with the additional water temperature

		No Reset						Reset					
		Non-Programmable			Programmable			One system temperature			Two system temperatures		
		Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches
Zoning Module Selection	1 zone							AQ2511B0					
	2-4 zones	AQ2504B2			AQ25A4B2			AQ2514B2			AQ2524M2		
			AQ2504B2			AQ25A4B2			AQ2514B2			AQ2524M2	
	5-8 zones			AQ2504B4			AQ25A4B4			AQ2514B4			AQ2524M4
		AQ2504B2 + AQ2554P2X			AQ25A4B2 + AQ2554P2X			AQ2514B2 + AQ2554P2X			AQ2524M2 + AQ2554P2X		
			AQ2504B2 + AQ2554V2			AQ25A4B2 + AQ2554V2			AQ2514B2 + AQ2554V2			AQ2524M2 + AQ2554V2	
	9-12 zones			AQ2504B4 + AQ2574V4			AQ25A4B4 + AQ2574V4			AQ2514B4 + AQ2574V4			AQ2524M4 + AQ2574V4
		AQ2504B2 + AQ2558P2X			AQ25A4B2 + AQ2558P2X			AQ2514B2 + AQ2558P2X			AQ2524M2 + AQ2558P2X		
			AQ2504B2 + AQ2554V2 (2)			AQ25A4B2 + AQ2554V2 (2)			AQ2514B2 + AQ2554V2 (2)			AQ2524M2 + AQ2554V2 (2)	
	13-16 zones			AQ2504B4 + AQ2574V4 (2)			AQ25A4B4 + AQ2574V4 (2)			AQ2514B4 + AQ2574V4 (2)			AQ2524M4 + AQ2574V4 (2)
		AQ2504B2 + AQ2558P2X + AQ2554P2X			AQ25A4B2 + AQ2558P2X + AQ2554P2X			AQ2514B2 + AQ2558P2X + AQ2554P2X			AQ2524M2 + AQ2558P2X + AQ2554P2X		
			AQ2504B2 + AQ2554V2 (3)			AQ25A4B2 + AQ2554V2 (3)			AQ2514B2 + AQ2554V2 (3)			AQ2524M2 + AQ2554V2 (3)	
				AQ2504B4 + AQ2574V4 (3)			AQ25A4B4 + AQ2574V4 (3)			AQ2514B4 + AQ2574V4 (3)			AQ2524M4 + AQ2574V4 (3)

[Product Selector for Additional Water Temperatures](#)
[Wiring diagram for multiple Add-A-Temperature Modules](#)
[Wiring Instructions for Special Applications](#)

NOTE:

Below are links to wiring diagrams of the AQ2000 components in Visio, AutoCAD DWG and AutoCAD DXF Formats
 Click on the applicable file format to access the diagrams' Table of Contents

*AQ2511B0 panel requires either a conventional, non-communicating thermostat OR a switching relay input. It does NOT use AQ1000 communicating thermostats

Visio Version

PDF Version

AutoCAD DXF Version

AQ2000 Series - Hydronic Controls Product Selector

AutoCAD DWG Version

Selection Procedure:

When using AQ2000 controls for more than two water temperatures:

1. Select the AQ2000 panel
2. Select the quantity of expansion control panels needed using the AQ254 selection tool
3. Save the result (drawing) for each selection in a separate file.

Print out the drawings, OR - if using Visio or AutoCAD - combine them all into one system drawing

Reset				
One system temperature				
	Zone pumps	Zone valves without end switches	Zone valves with end switches	
Control Panel Selection	1-4 zones	AQ2541E0 + AQ2554P2X		
			AQ2541E0 + AQ2554P2X	
			AQ2541E0 + AQ2574V4	
	5-8 zones	AQ2541E0 + AQ2558P2X		
			AQ2541E0 + AQ2554P2X + AQ2554V2	
			AQ2541E0 + AQ2574V4 (2)	
	9-12 zones	AQ2541E0 + AQ2558P2X + AQ2554P2X		
			AQ2541E0 + AQ2554P2X + AQ2554V2 (2)	
			AQ2541E0 + AQ2574V4 (3)	
	13-16 zones	AQ2541E0 + AQ2558P2X (2)		
			AQ2541E0 + AQ2554P2X + AQ2554V2 (3)	
			AQ2541E0 + AQ2574V4 (4)	

[Wiring diagram for multiple Add-A-Temperature Modules](#)
[Wiring Instructions for Special Applications](#)

NOTE:

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Visio Version

PDF Version

AutoCAD DXF Version

AQ2000 Wiring Instructions for Special Applications

AutoCAD DWG Version

<u>AQ2511B0 Reset Panel with Connections to Non-Communicating Zoning Panel or Thermostat</u>
<u>Combining Pump and Valve Zoning on a Single Zoning Module</u>
<u>Combining Pump and Valve Zoning on Different Zoning Modules</u>
<u>AQ2000 Control Panel for use with T775 Boiler Stager (multiple boilers)</u>
<u>Programmable AQ2000 Control Panel for One Zone of AC</u>
<u>Programmable AQ2000 Control Panel for One Zone of AC with Fan</u>
<u>AQ2000 Wiring to Oil Aquastat</u>
<u>Using a 24V Zone Valve for DHW & Bypass Valves (AQ2504B2 shown)</u>
<u>Two Stage Zone Control</u>
<u>Wiring for Single and Multiple (Averaging) Sensor Installations</u>
<u>Wiring of VisionPRO IAQ and NC Relay to Aux-In</u>
<u>AQ2511B0 with Tankless Coil</u>
<u>Group Pump Wiring and Sequence of Operation</u>

<u>Wiring diagram for multiple Add-A-Temperature Modules</u>
<u>Additional Water Temperature Selector</u>

Visio Version

PDF Version

AutoCAD DXF Version

Selection Procedure:

When using AQ2000 controls, selecting components could not be easier. All it takes are four easy steps.

1. Select whether the boiler supply water temperature is reset by the AQ control or not
2. Select zoning equipment (pumps, 2-wire valves or 4-wire valves with end switches)
3. Select number of space heating zones

4. For systems with more than 2 controlled water temperatures, each additional mixed temperature will require an AQ2541E0 expansion control panel plus sufficient zoning modules to manage the zones associated with the additional water temperature

		No Reset						Reset						
		Non-Programmable			Programmable			One system temperature			Two system temperatures			
		Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	Zone pumps	Zone valves (2 wire)	Zone valves with end switches	
Zoning Module Selection	1 zone							AQ2511B0						
	2-4 zones	AQ2504B2			AQ25A4B2			AQ2514B2			AQ2524M2			
			AQ2504B2			AQ25A4B2			AQ2514B2			AQ2524M2		
	5-8 zones	AQ2504B2 + AQ2554P2X			AQ25A4B2 + AQ2554P2X			AQ2514B2 + AQ2554P2X			AQ2524M2 + AQ2554P2X			
			AQ2504B2 + AQ2554V2			AQ25A4B2 + AQ2554V2			AQ2514B2 + AQ2554V2			AQ2524M2 + AQ2554V2		
				AQ2504B4 + AQ2574V4			AQ25A4B4 + AQ2574V4			AQ2514B4 + AQ2574V4			AQ2524M4 + AQ2574V4	
	9-12 zones	AQ2504B2 + AQ2558P2X			AQ25A4B2 + AQ2558P2X			AQ2514B2 + AQ2558P2X			AQ2524M2 + AQ2558P2X			
			AQ2504B2 + AQ2554V2 (2)			AQ25A4B2 + AQ2554V2 (2)			AQ2514B2 + AQ2554V2 (2)			AQ2524M2 + AQ2554V2 (2)		
				AQ2504B4 + AQ2574V4 (2)			AQ25A4B4 + AQ2574V4 (2)			AQ2514B4 + AQ2574V4 (2)			AQ2524M4 + AQ2574V4 (2)	
	13-16 zones	AQ2504B2 + AQ2558P2X + AQ2554P2X			AQ25A4B2 + AQ2558P2X + AQ2554P2X			AQ2514B2 + AQ2558P2X + AQ2554P2X			AQ2524M2 + AQ2558P2X + AQ2554P2X			
		AQ2504B2 + AQ2554V2 (3)			AQ25A4B2 + AQ2554V2 (3)			AQ2514B2 + AQ2554V2 (3)			AQ2524M2 + AQ2554V2 (3)			
			AQ2504B4 + AQ2574V4 (3)			AQ25A4B4 + AQ2574V4 (3)			AQ2514B4 + AQ2574V4 (3)			AQ2524M4 + AQ2574V4 (3)		

[Product Selector for Additional Water Temperatures](#)
[Wiring diagram for multiple Add-A-Temperature Modules](#)
[Wiring Instructions for Special Applications](#)

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*AQ2511B0 panel requires either a conventional, non-communicating thermostat OR a switching relay input. It does NOT use AQ1000 communicating thermostats

Visio Version

AutoCAD DWG Version

PDF Version

AQ2000 Series - Hydronic Controls Product Selector

Selection Procedure:

When using AQ2000 controls for more than two water temperatures:

1. Select the AQ2000 panel
2. Select the quantity of expansion control panels needed using the AQ254 selection tool
3. Save the result (drawing) for each selection in a separate file.

Print out the drawings, OR - if using Visio or AutoCAD - combine them all into one system drawing

		Reset		
		One system temperature		
		Zone pumps	Zone valves without end switches	Zone valves with end switches
Control Panel Selection	1-4 zones	AQ2541E0 + AQ2554P2X		
			AQ2541E0 + AQ2554P2X	
				AQ2541E0 + AQ2574V4
	5-8 zones	AQ2541E0 + AQ2558P2X		
			AQ2541E0 + AQ2554P2X + AQ2554V2	
				AQ2541E0 + AQ2574V4 (2)
	9-12 zones	AQ2541E0 + AQ2558P2X + AQ2554P2X		
			AQ2541E0 + AQ2554P2X + AQ2554V2 (2)	
				AQ2541E0 + AQ2574V4 (3)
	13-16 zones	AQ2541E0 + AQ2558P2X (2)		
			AQ2541E0 + AQ2554P2X + AQ2554V2 (3)	
				AQ2541E0 + AQ2574V4 (4)

[Wiring diagram for multiple Add-A-Temperature Modules](#)

[Wiring Instructions for Special Applications](#)

NOTE:

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Visio Version

AutoCAD DWG Version

PDF Version

AQ2000 Wiring Instructions for Special Applications

AutoCAD DXF Version

<u>AQ2511B0 Reset Panel with Connections to Non-Communicating Zoning Panel or Thermostat</u>
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<u>Wiring of VisionPRO IAQ and NC Relay to Aux-In</u>
<u>AQ2511B0 with Tankless Coil</u>
<u>Group Pump Wiring and Sequence of Operation</u>

<u>Wiring diagram for multiple Add-A-Temperature Modules</u>
<u>Additional Water Temperature Selector</u>

Visio Version

AutoCAD DWG Version

PDF Version