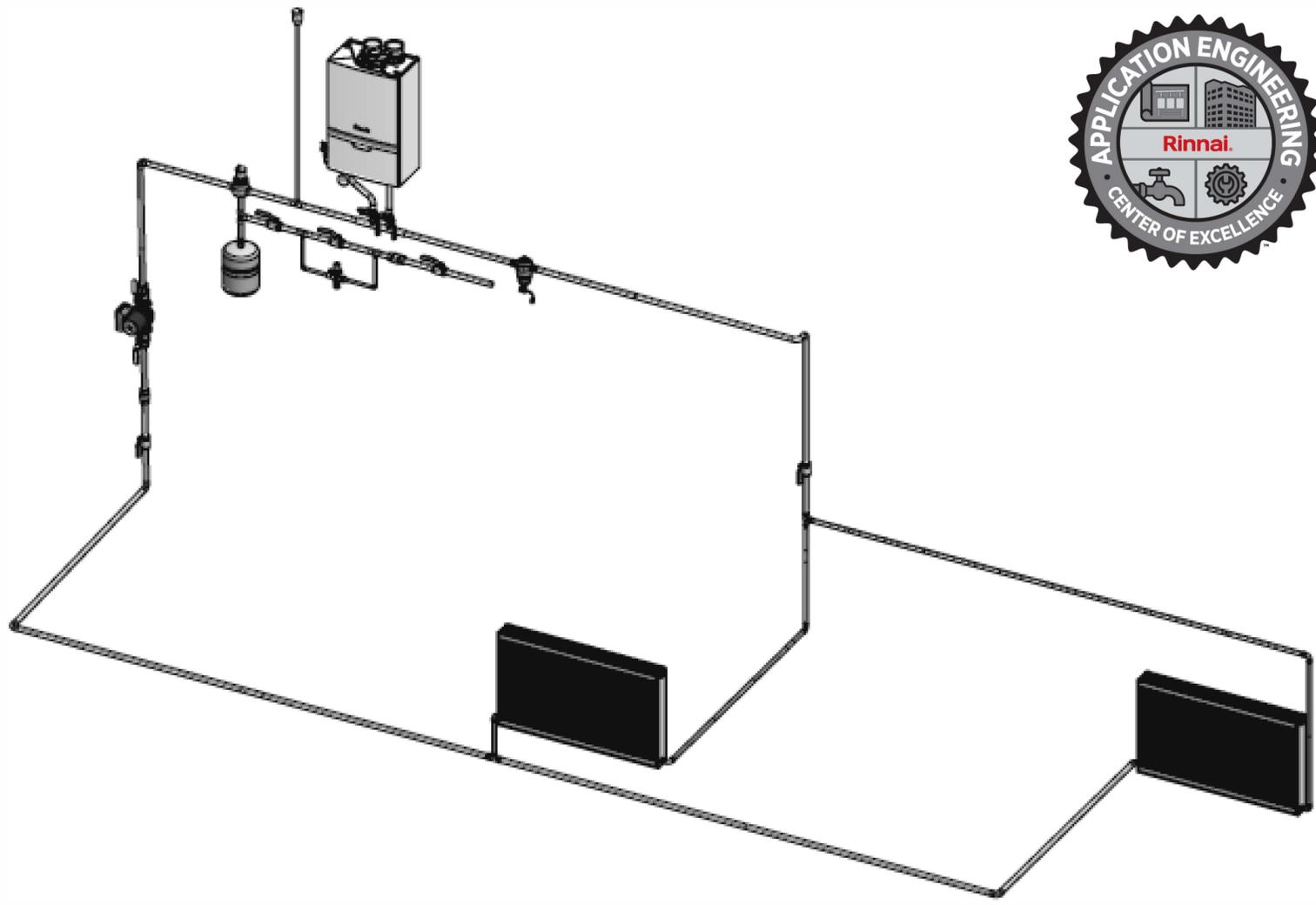




M-Series System Application Drawings

For Rinnai M-Series Condensing Boilers



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Overview

About this Document

This document contains application engineering drawings for the Rinnai M-Series Condensing Boiler. For more information on the M-Series Condensing Boiler, visit rinnai.us.

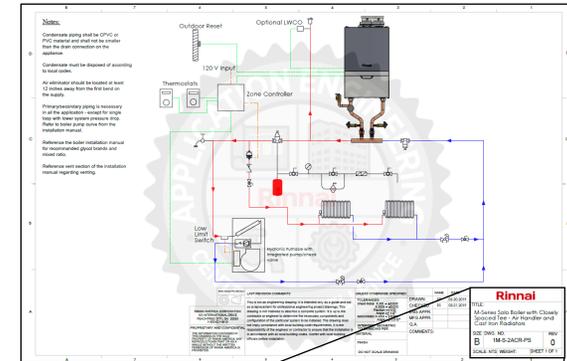
Abbreviations

Listed below are abbreviations used throughout this document.

A	Air Handler
B	Baseboard
BR	Baseboard and Radiant
CR	Cast Iron Radiator
C	Combi
HX	Heat Exchanger
I	Indirect Tank
LLH	Low Loss Header
XX	Zone Not Specified
O	Oxygen Permeable Piping
PR	Panel Radiator
P	Pool Heating
PS	Primary/Secondary
R	Radiant
S	Solo
SH	Space Heating
SM	Snow Melt
ZP	Zone Pump
ZV	Zone Valve

Engineering Drawing Overview

The bottom, right corner of each drawing contains document information such as title, drawing number, revision, total number of sheets, and more.



Rinnai

TITLE:
M-Series Solo Boiler with Closely Spaced Tee - Air Handler and Cast Iron Radiators

SIZE	DWG. NO.	REV
B	1M-S-2ACR-PS	0
SCALE: NTS		SHEET 1 OF 1

Contact

For questions about this document, contact Rinnai's Application Engineering Center of Excellence:

- Phone: 1-800-621-9419
- E-mail: engineering@rinnai.us

Drawing Number Nomenclature

Boiler Drawing Number

Example:

1M-S-2BR-PS



1 M - S - 2 BR - PS

Number of Boilers

(1, 2, 3, or 4)

Boiler Series

(M = M-Series)

Boiler Type

- C = Combi
- S = Solo

Number of Zones

(1, 2, 3, or 4)

Zone Description

- A = Air Handler
- B = Baseboard
- BR = Baseboard and Radiant
- CR = Cast Iron Radiator
- HX = Heat Exchanger
- I = Indirect Tank
- LLH = Low Loss Header
- XX = Zone Not Specified
- O = Oxygen Permeable Piping
- PR = Panel Radiator
- P = Pool Heating
- PS = Primary/Secondary
- R = Radiant
- SH = Space Heating
- SM = Snow Melt
- ZP = Zone Pump
- ZV = Zone Valve

Hydraulic Separation Method

- LLH = Low Loss Header
- PS = Primary/Secondary

Wiring Drawing Number

Example:

MW-2S-2ZP-I



M W - 2 S - 2 ZP - I

Boiler Series

(M = M-Series)

W = Wiring Diagram

Number of Boilers

(1, 2, 3, or 4)

Boiler Type

- C = Combi
- S = Solo

Number of Zones

(1, 2, 3, or 4)

Zone Description

- I = Indirect Tank
- SH = Space Heating
- ZP = Zone Pump
- ZV = Zone Valve

I = Indirect Tank (Optional)

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

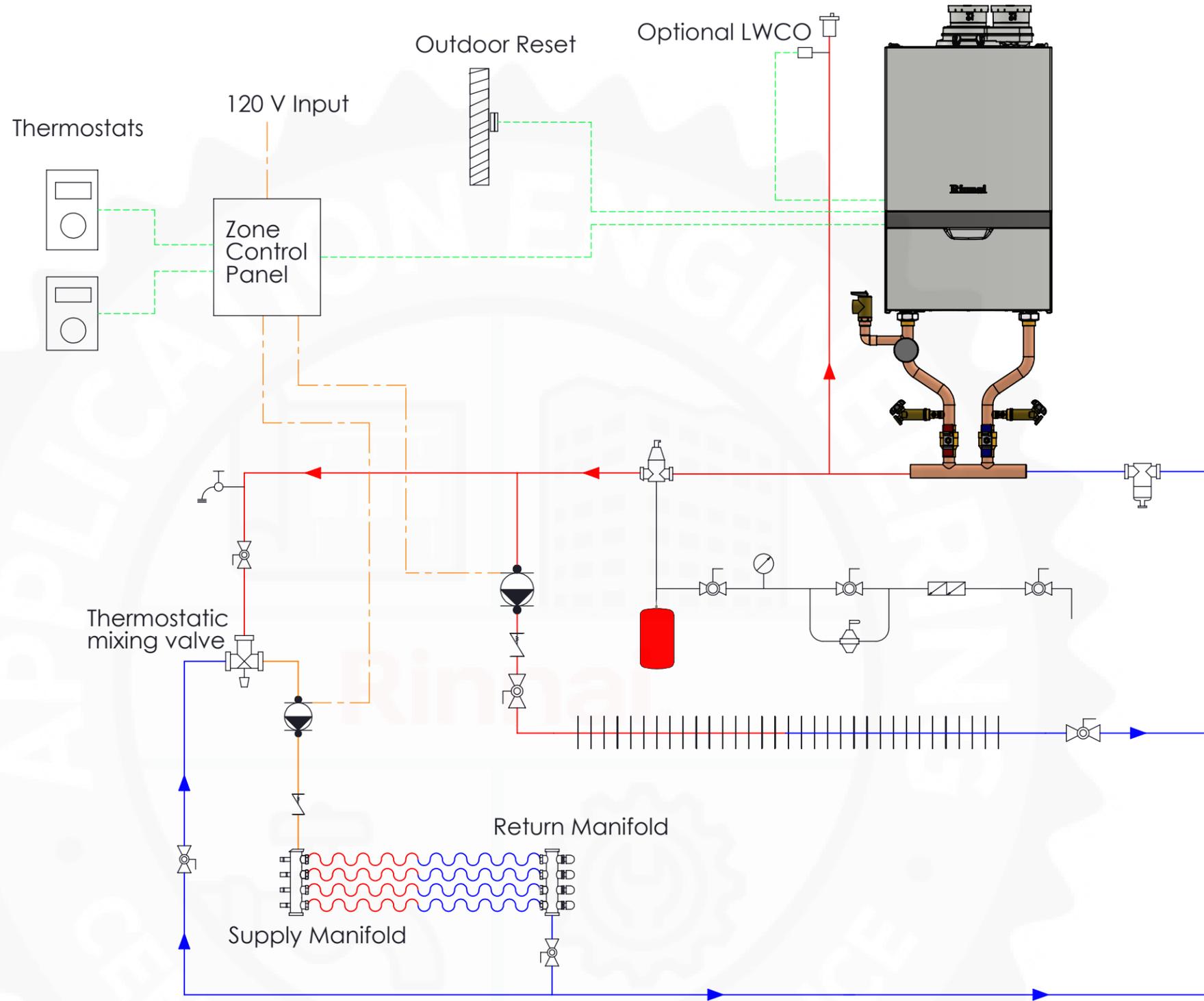
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



LAST REVISION COMMENTS

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 MACHINED X.XXX = ±0.005
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DRAWN	PP	03.20.2019
CHECKED	RS	03.21.2019
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai		
TITLE: M-Series Combi Boiler with Closely Spaced Tee - Radiant and Baseboard		
SIZE	DWG. NO.	REV
B	1M-S-2BR-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

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Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

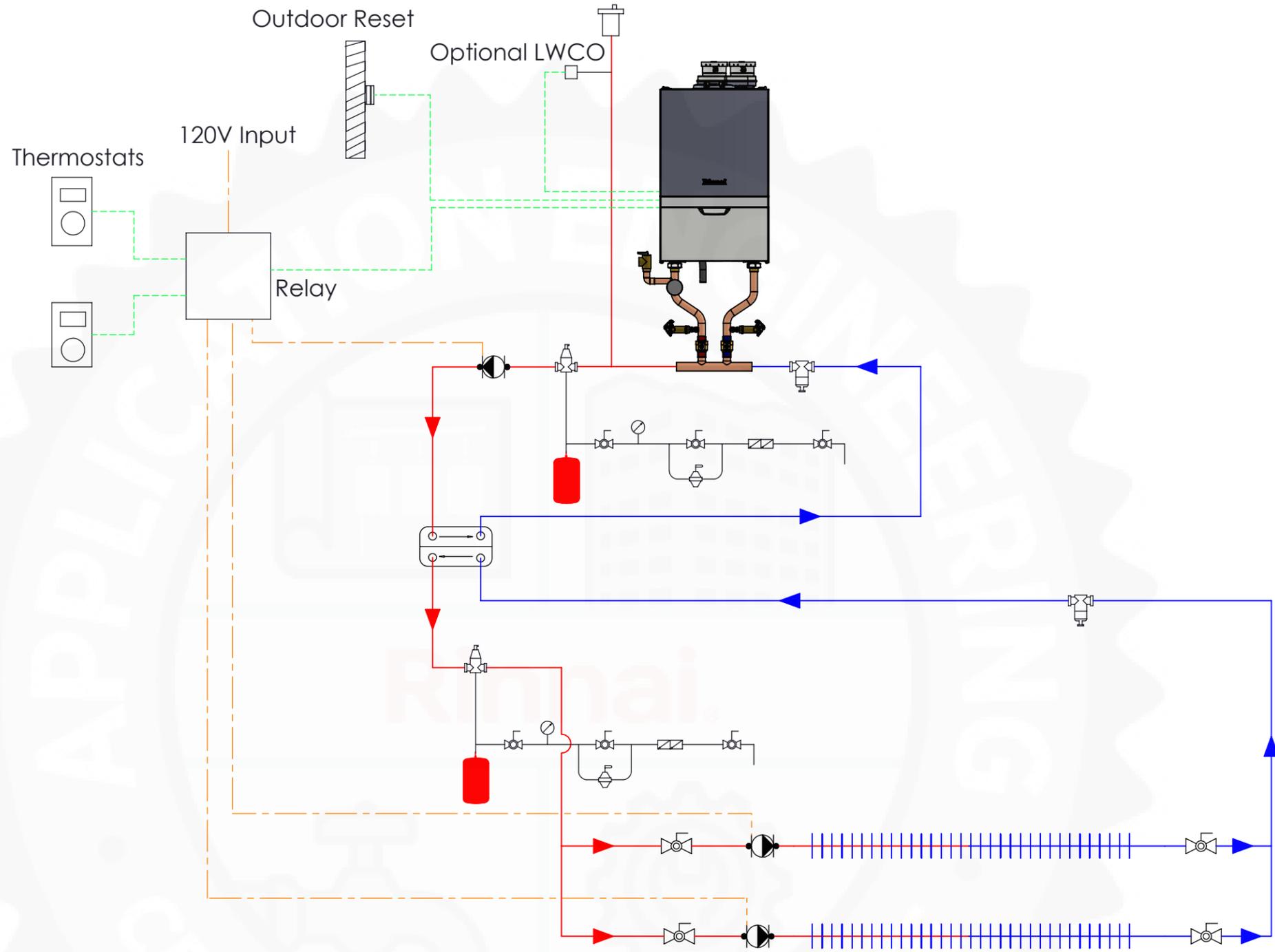
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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COMMENTS:		

Rinnai

TITLE:
M-Series Solo Boiler -
Oxygen Permeable Piping
with System Separation

SIZE	DWG. NO.	REV
B	1M-S-2BOHX-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

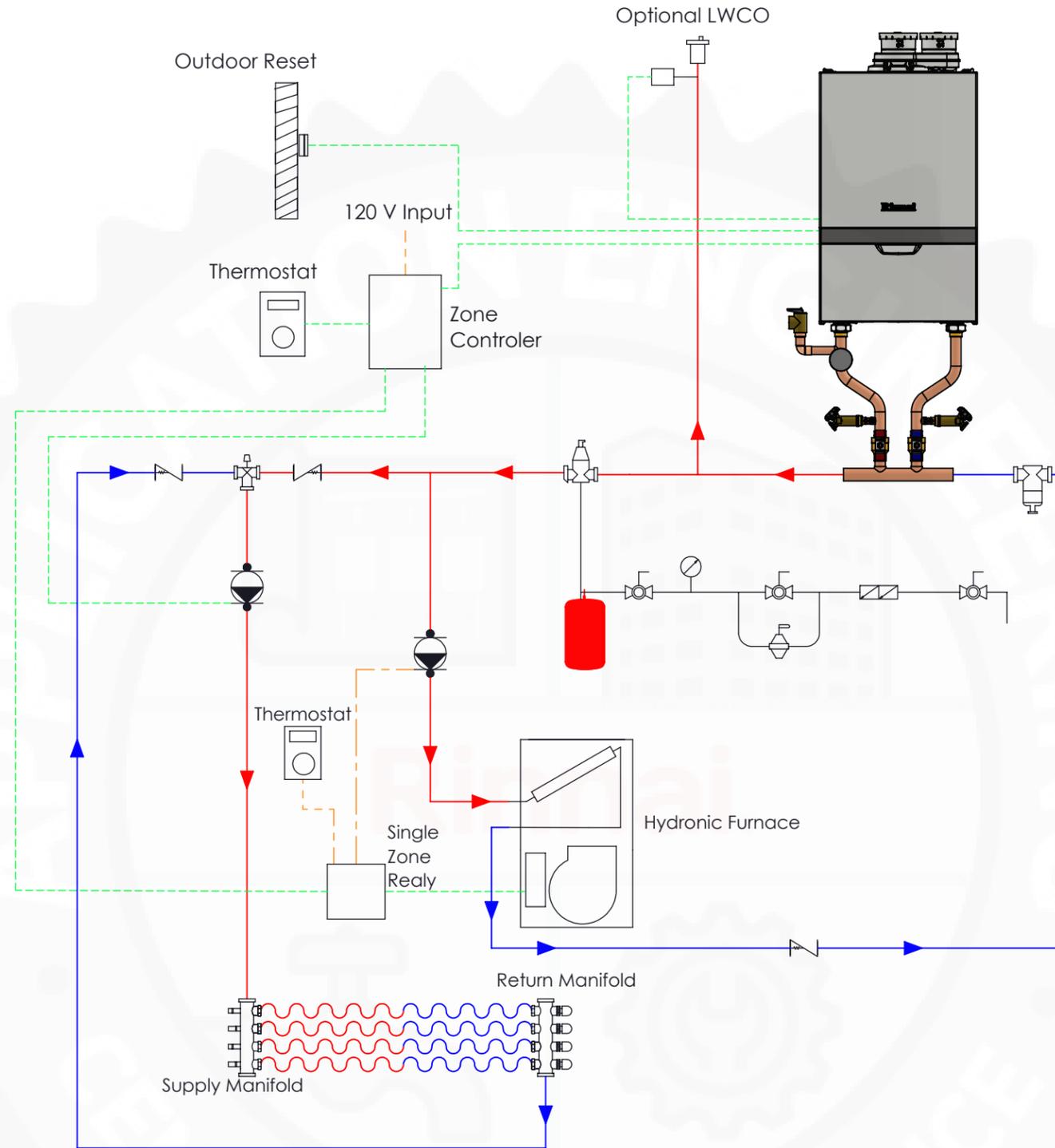
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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COMMENTS:		

Rinnai

TITLE:
M-Series Solo Boiler with Closely Spaced Tee - Air Handler and Radiant Floor Heating

SIZE	DWG. NO.	REV
B	1M-S-2AR-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

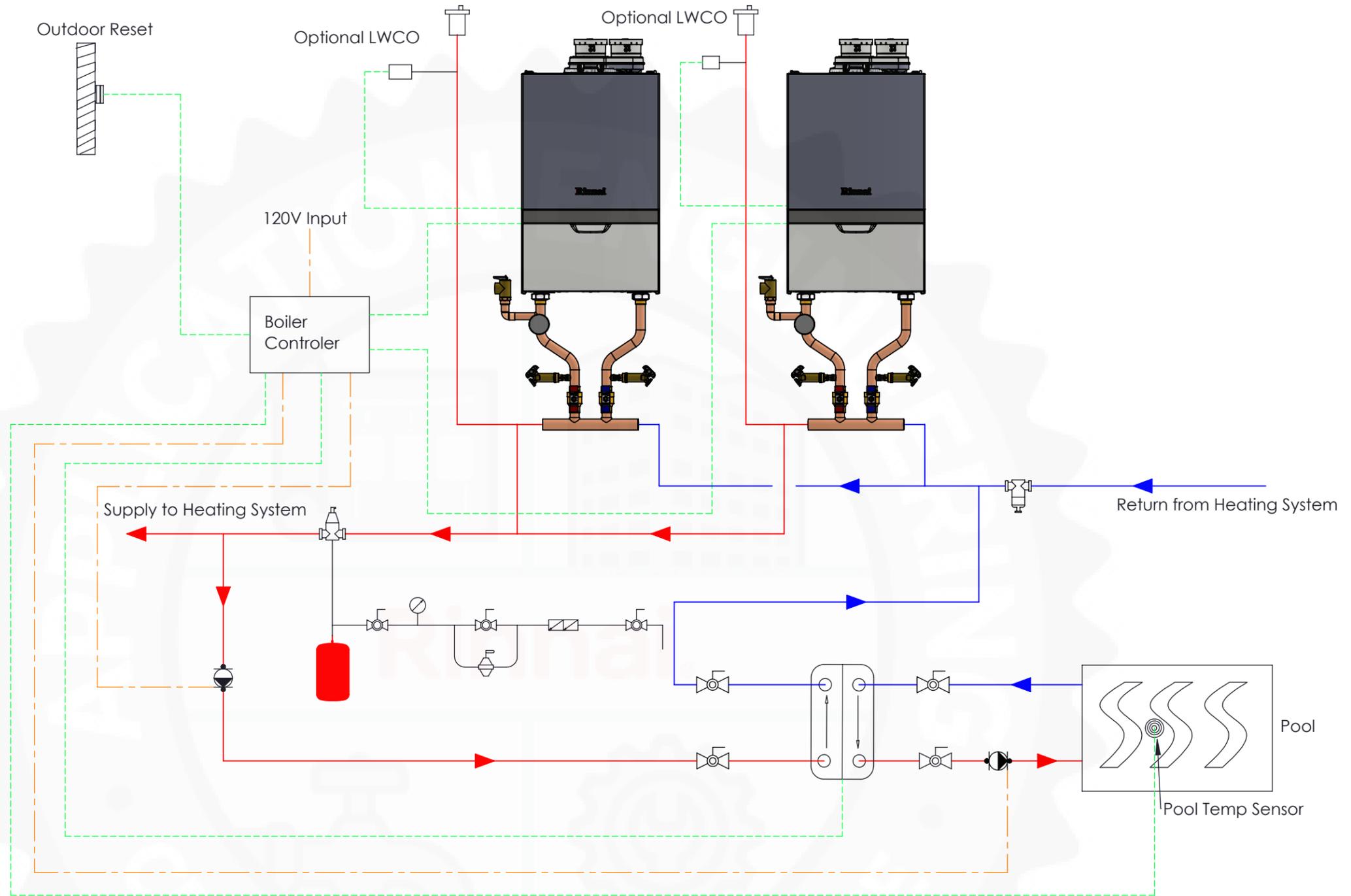
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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CHECKED	RS	04.22.2019
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai

TITLE:
 Two M-Series Solo Boilers with Pool Heating

SIZE	DWG. NO.	REV
B	2M-S-1PHX-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

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Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

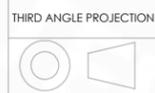
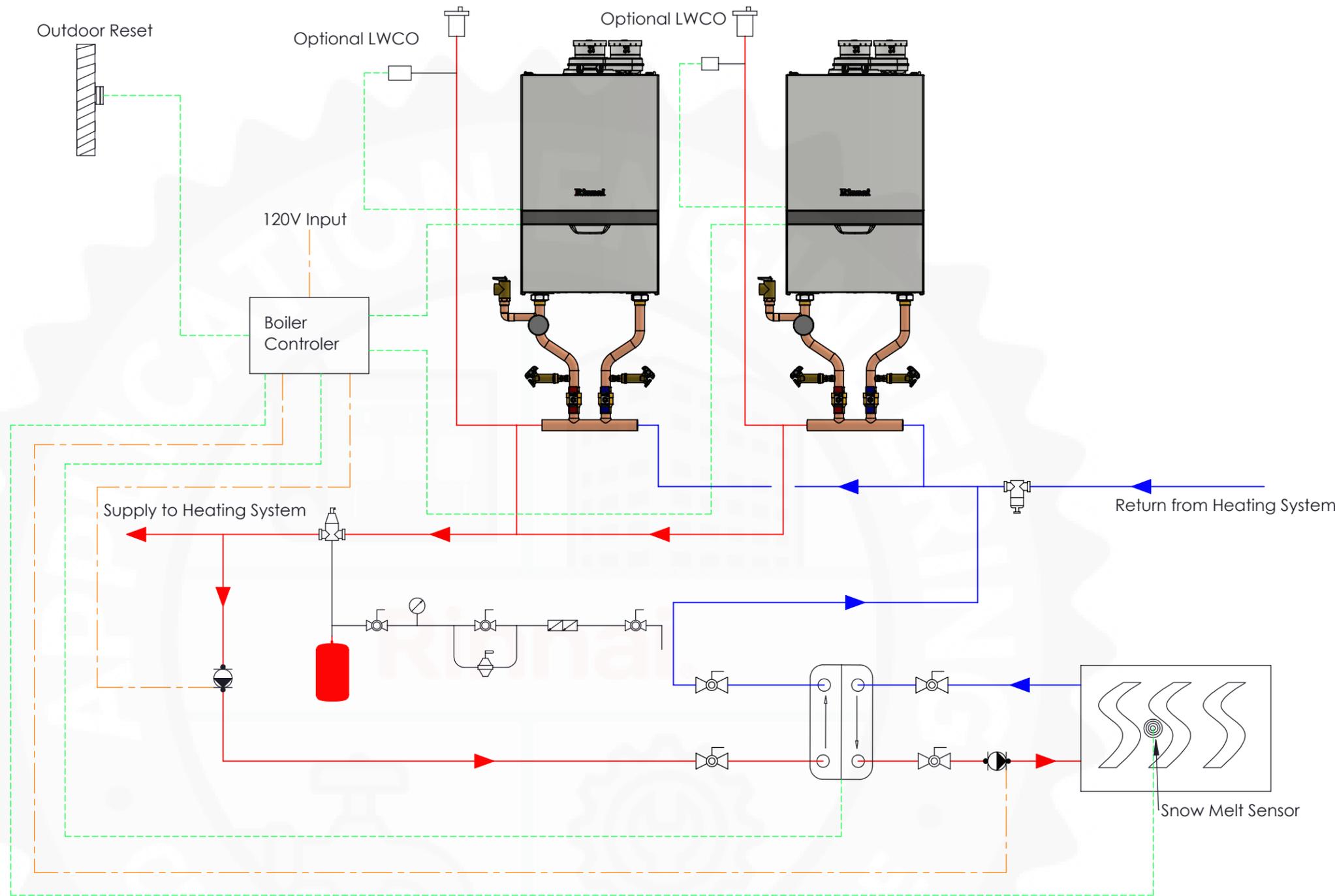
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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TITLE: Two M-Series Solo Boilers with Snow Melt System		
SIZE	DWG. NO.	REV
B	2M-S-1SmHX-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

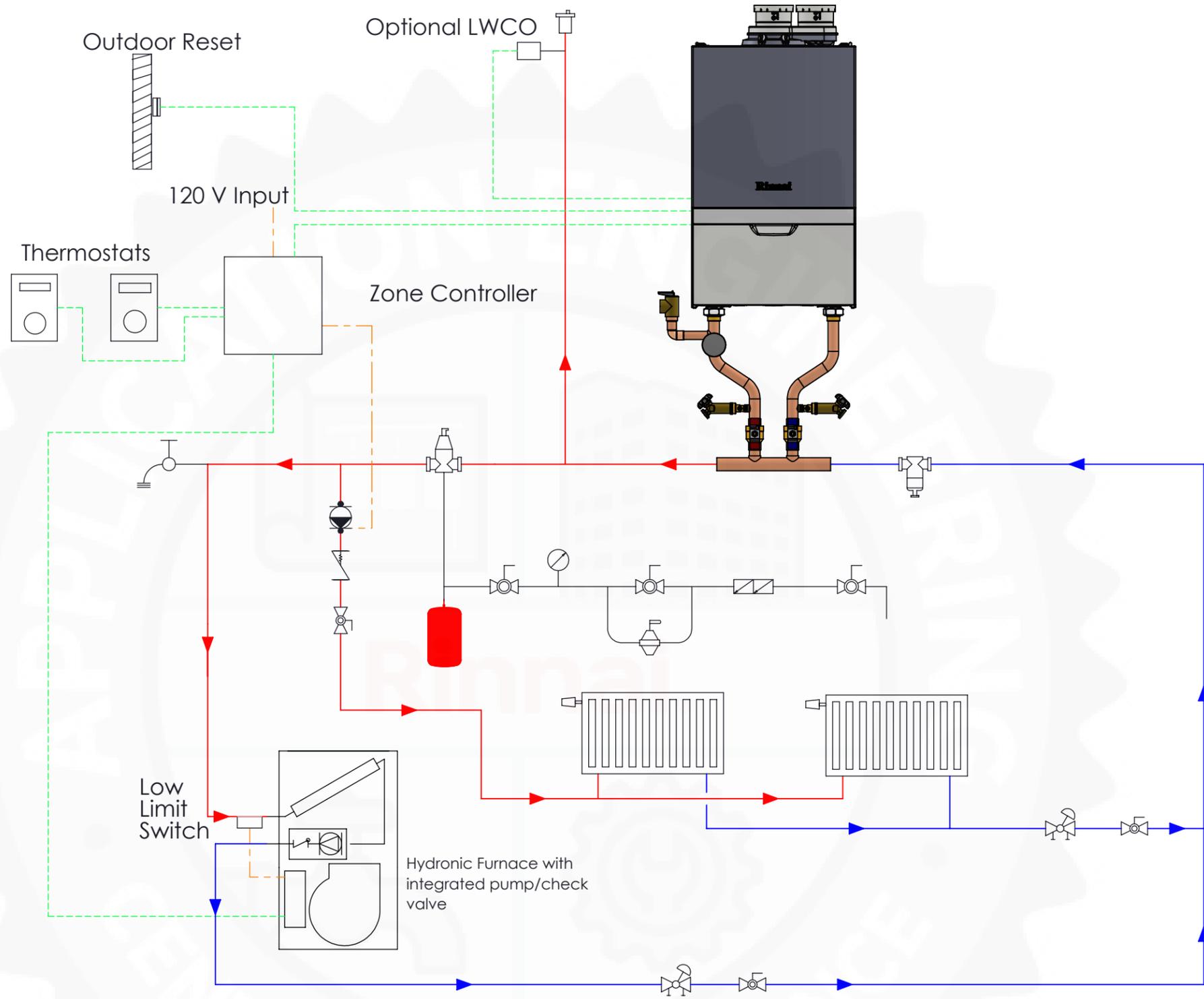
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai

TITLE:
M-Series Solo Boiler with Closely Spaced Tee - Air Handler and Panel Radiator

SIZE	DWG. NO.	REV
B	1M-S-2APR-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

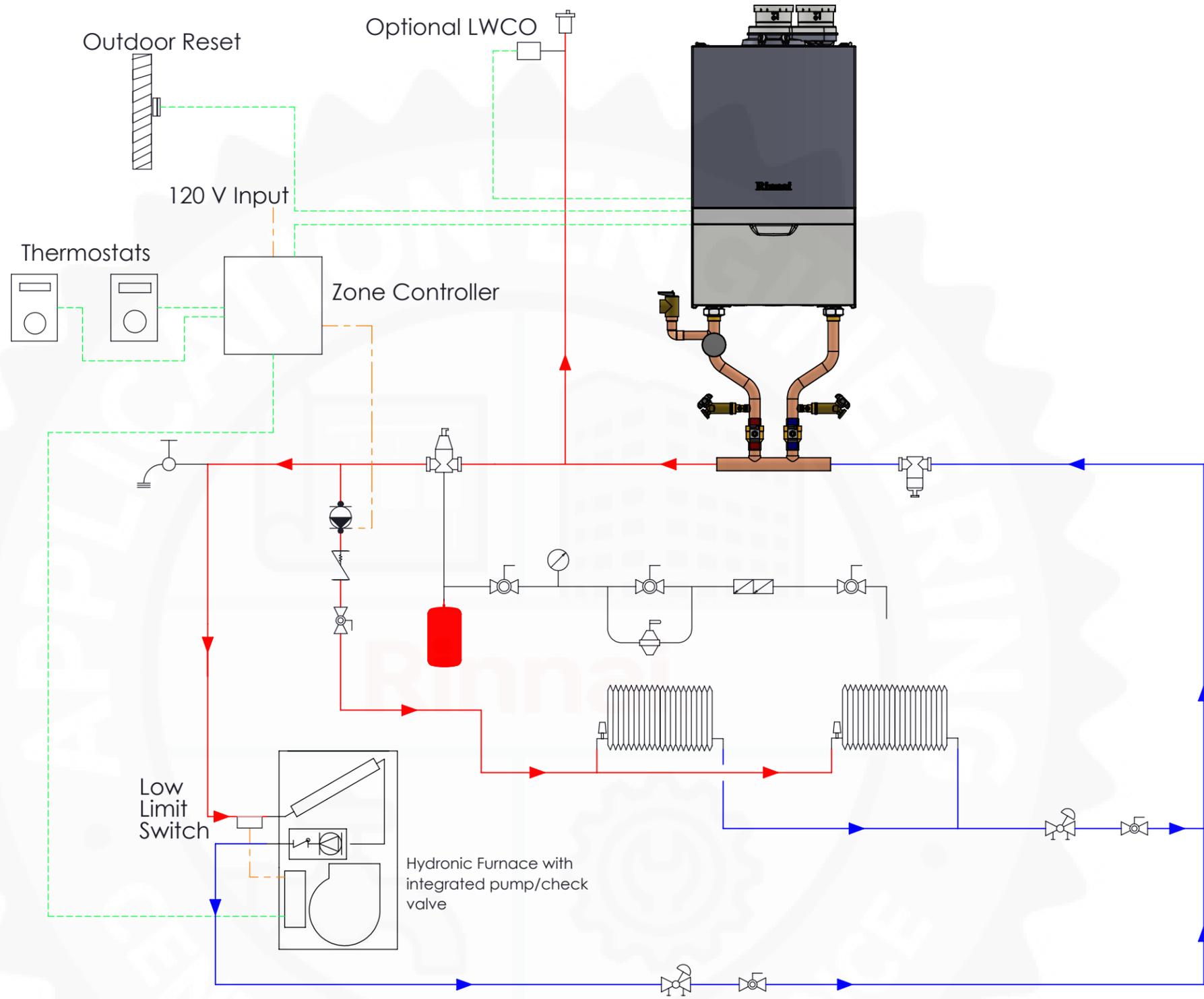
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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Q.A.		
COMMENTS:		



TITLE:
M-Series Solo Boiler with Closely Spaced Tee - Air Handler and Cast Iron Radiators

SIZE DWG. NO. REV
B 1M-S-2ACR-PS **0**

SCALE: NTS WEIGHT: SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

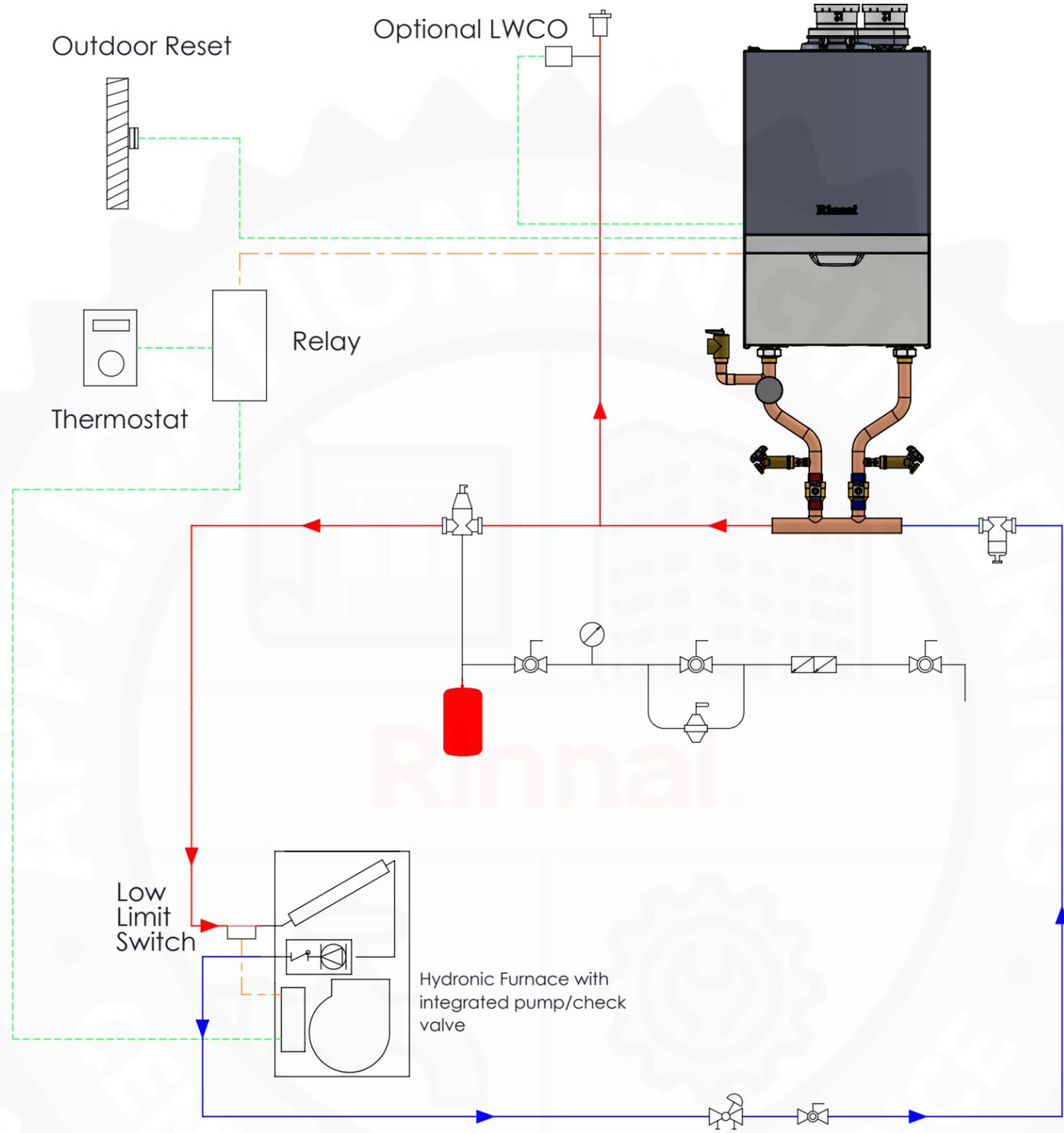
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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Angle = ± 0.010°

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DRAWN	PP	03.20.2019
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ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai		
TITLE: M-Series Combi Boiler with Closely Spaced Tee and Air Handler		
SIZE	DWG. NO.	REV
B	1M-C-1A-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

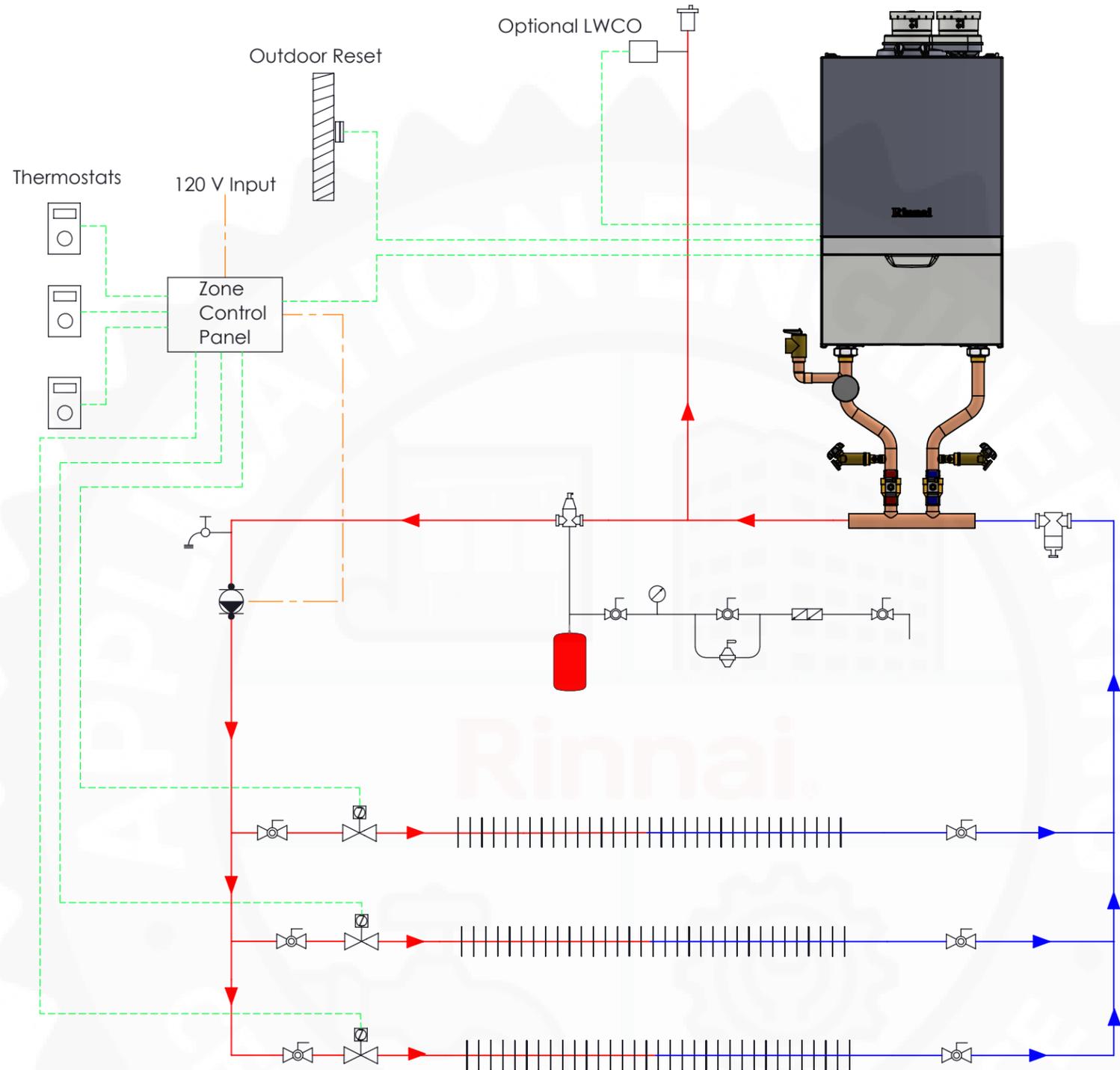
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai

TITLE:
M-Series Combi Boiler with Closely Spaced Tee - Multizone

SIZE	DWG. NO.	REV
B	1M-C-3B-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

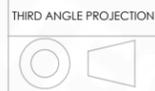
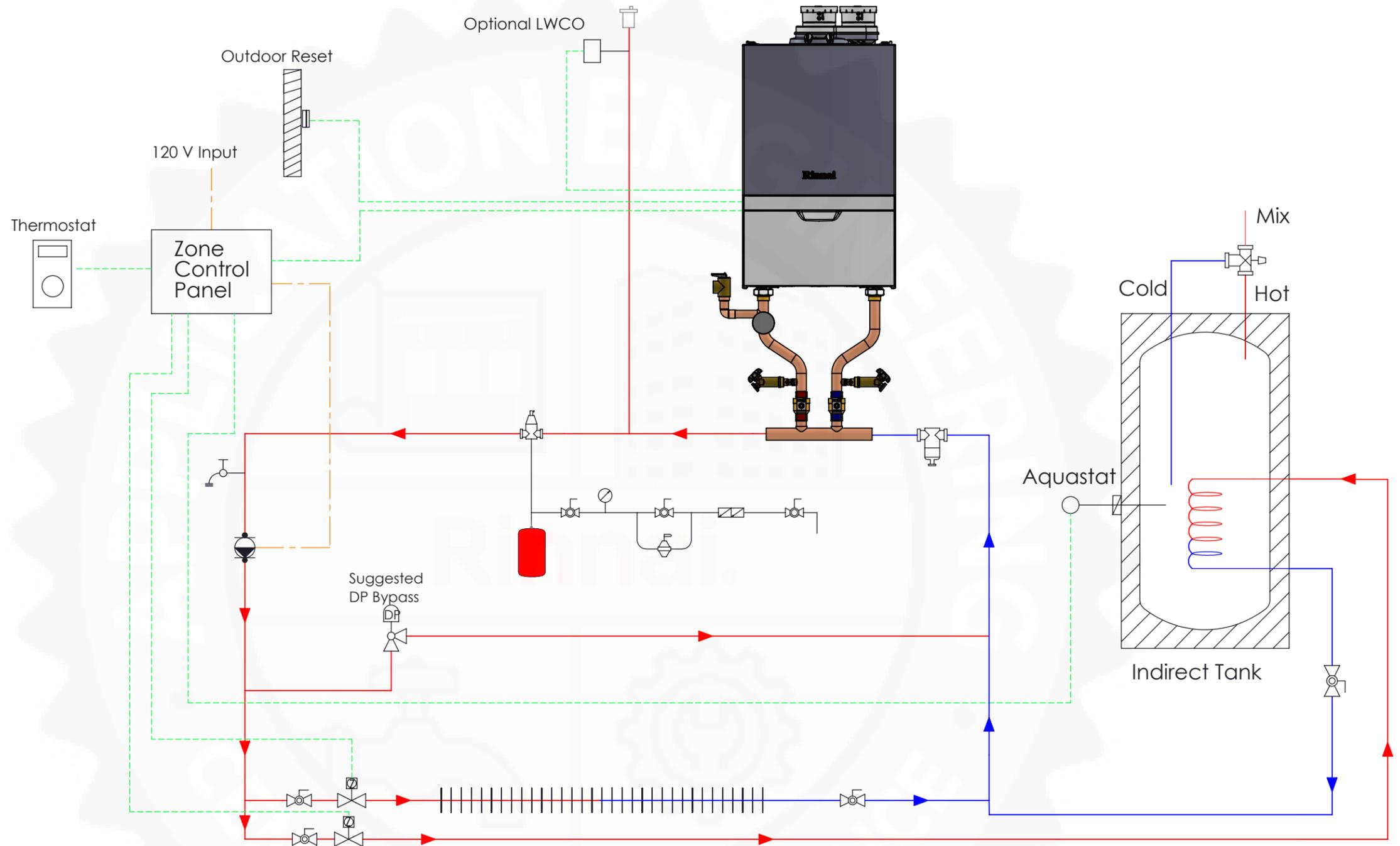
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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 X.XXX = ±0.010
 Fraction = ±1/32
 Angle = ± 1.0°
 MACHINED X.XXX = ±0.005
 Angle = ± 0.010°
 INTERPRET GEOMETRIC TOLERANCING PER:
 MATERIAL
 FINISH
 DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	PP	03.20.2019
CHECKED	RS	03.21.2019
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai

TITLE:
 M-Series Solo Boiler with Closely Spaced Tee - Indirect Tank

SIZE	DWG. NO.	REV
B	1M-S-2BI-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

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Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

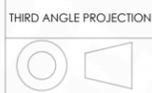
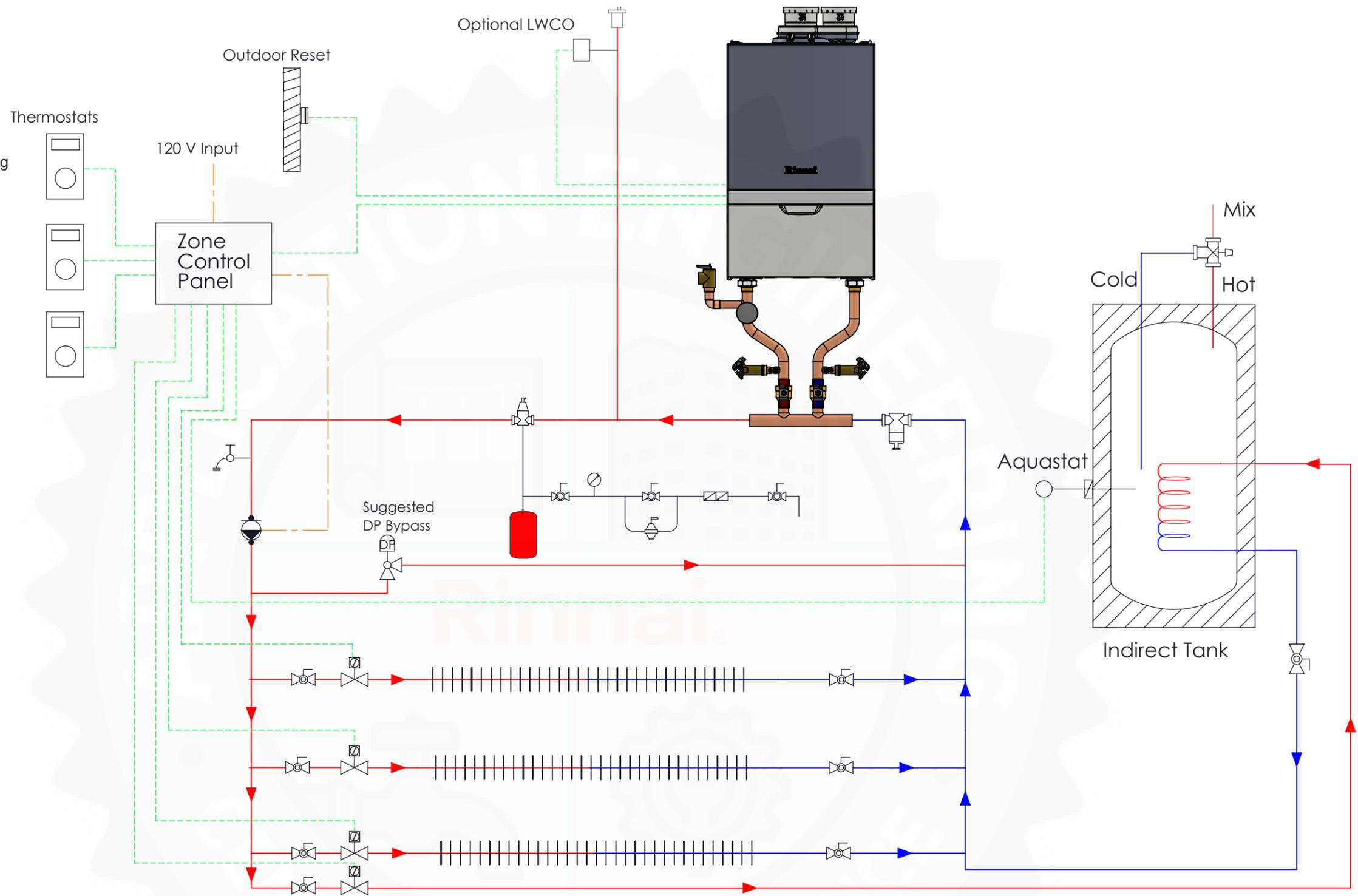
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.



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INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL
FINISH
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	PP	03.20.2019
CHECKED	RS	03.21.2019
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai		
TITLE: M-Series Solo Boiler with Closely Spaced Tee - Multizone - Indirect Tank		
SIZE	DWG. NO.	REV
B	1M-S-4BI-PS	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

Condensate must be disposed of according to local codes.

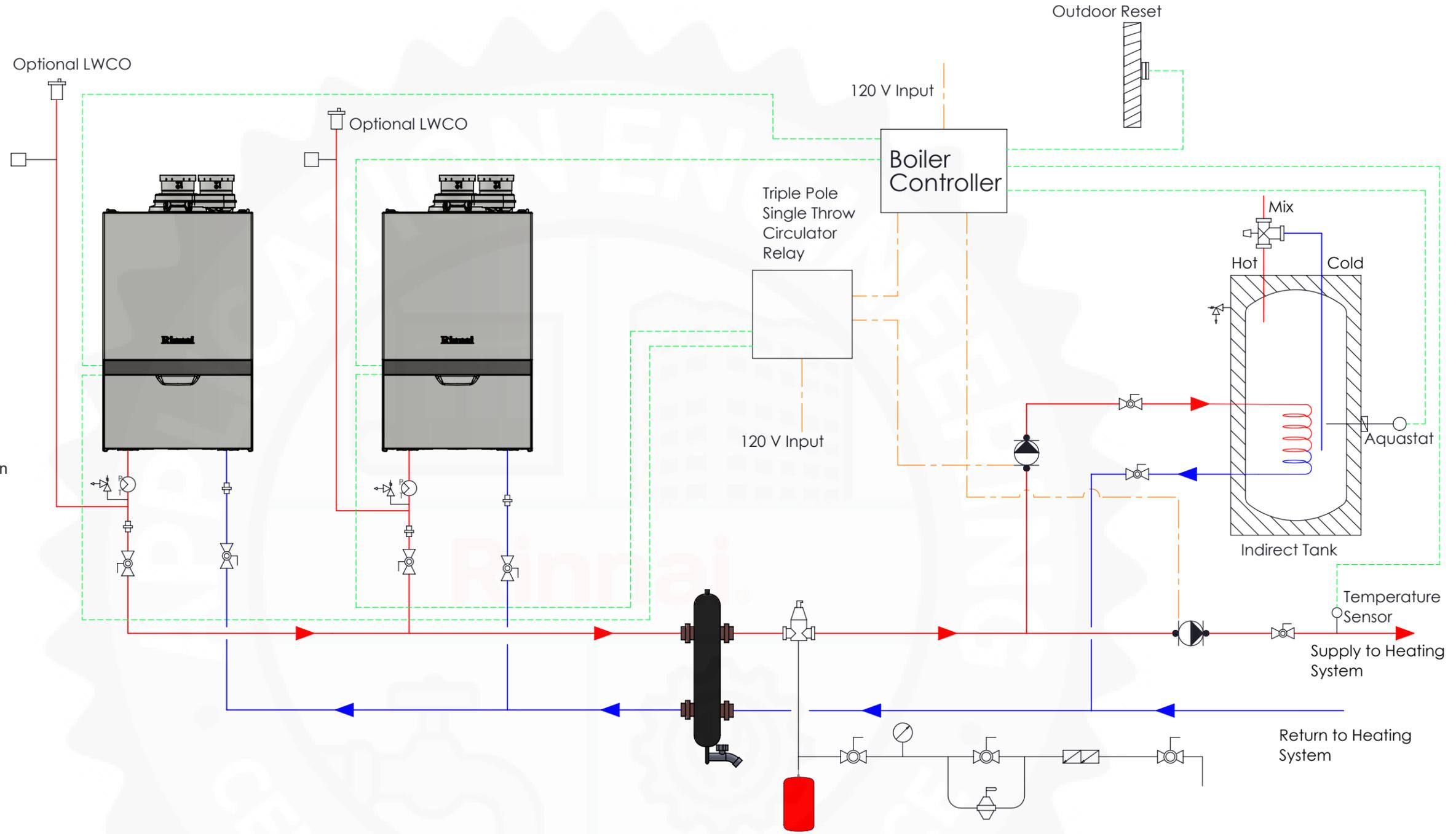
Air eliminator should be located at least 12 inches away from the first bend on the supply.

Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.

Need to incorporate third party controller for multiple boilers.



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 MATERIAL
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	NAME	DATE
DRAWN	PP	03.25.2019
CHECKED	RS	03.25.2019
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

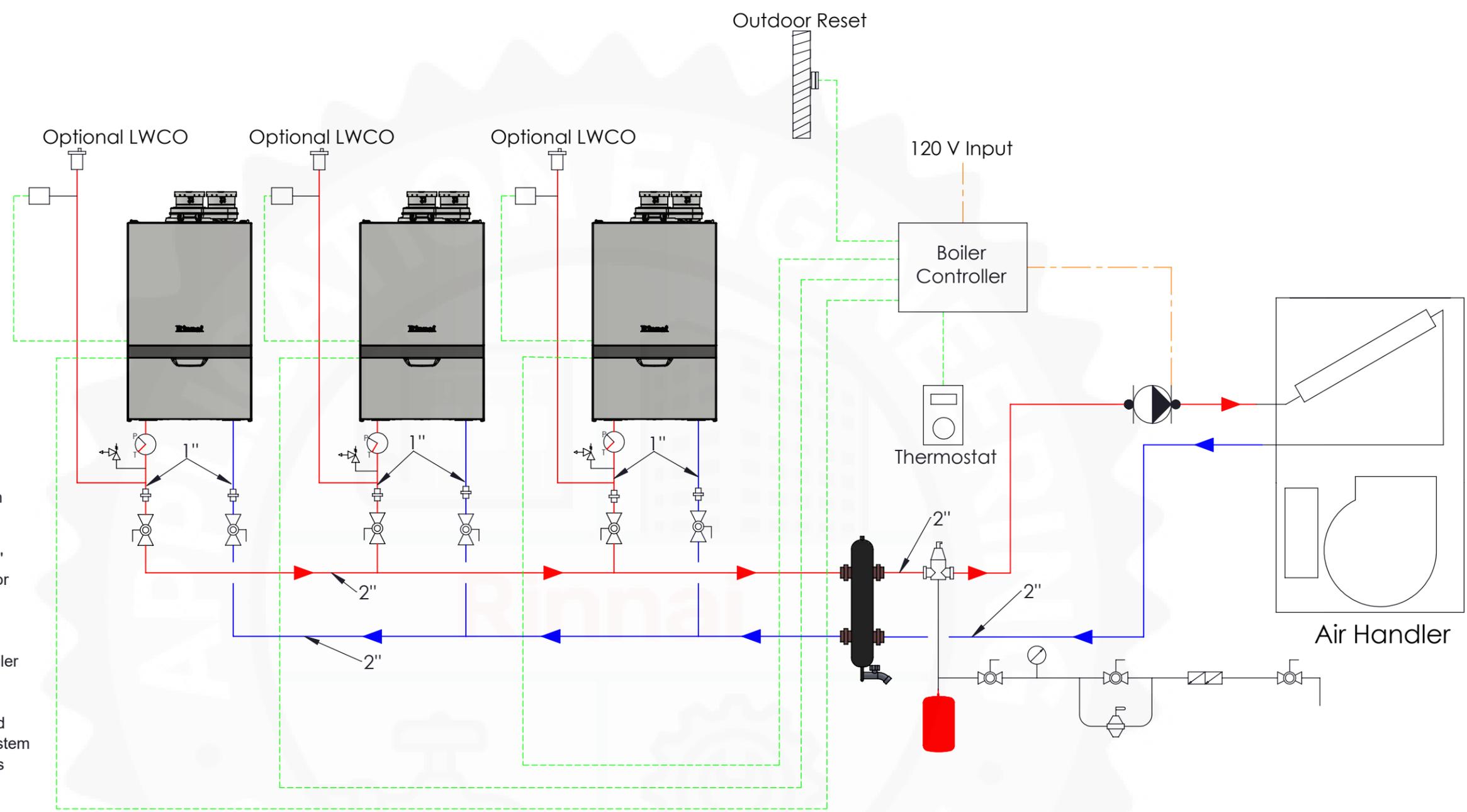
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TITLE: Two M-Series Solo Boilers - Multiple Zones Low Loss Header with Indirect Tank		
SIZE	DWG. NO.	REV
B	2M-S-IXX-LLH	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

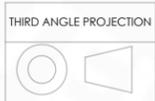
Notes:

- Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.
- Condensate must be disposed of according to local codes.
- Air eliminator should be located at least 12 inches away from the first bend on the supply.
- Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.
- Reference the boiler installation manual for recommended glycol brands and mixed ratio.
- Reference vent section of the installation manual regarding venting.
- Supply and return should be sized for 2" to the both side of the hydraulic separator and to the air handler. Reference hydraulic separator manufacturer.
- Supply and return connections to the boiler are 1".
- Pump should be sized at 35 gpm at head loss though the air handler and other system components. Variable frequency pump is advised.
- Reference third party boiler controller for the wiring diagrams.



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A



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Angle = ± 0.010°

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	PP	04.30.2019
CHECKED	RS	04.30.2019
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Rinnai

TITLE:
Three M-Series Solo Boilers with Low Loss Header and Air Handler

SIZE	DWG. NO.	REV
B	3M-S-1A-LLH	0

SCALE: NTS WEIGHT: SHEET 1 OF 1

Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

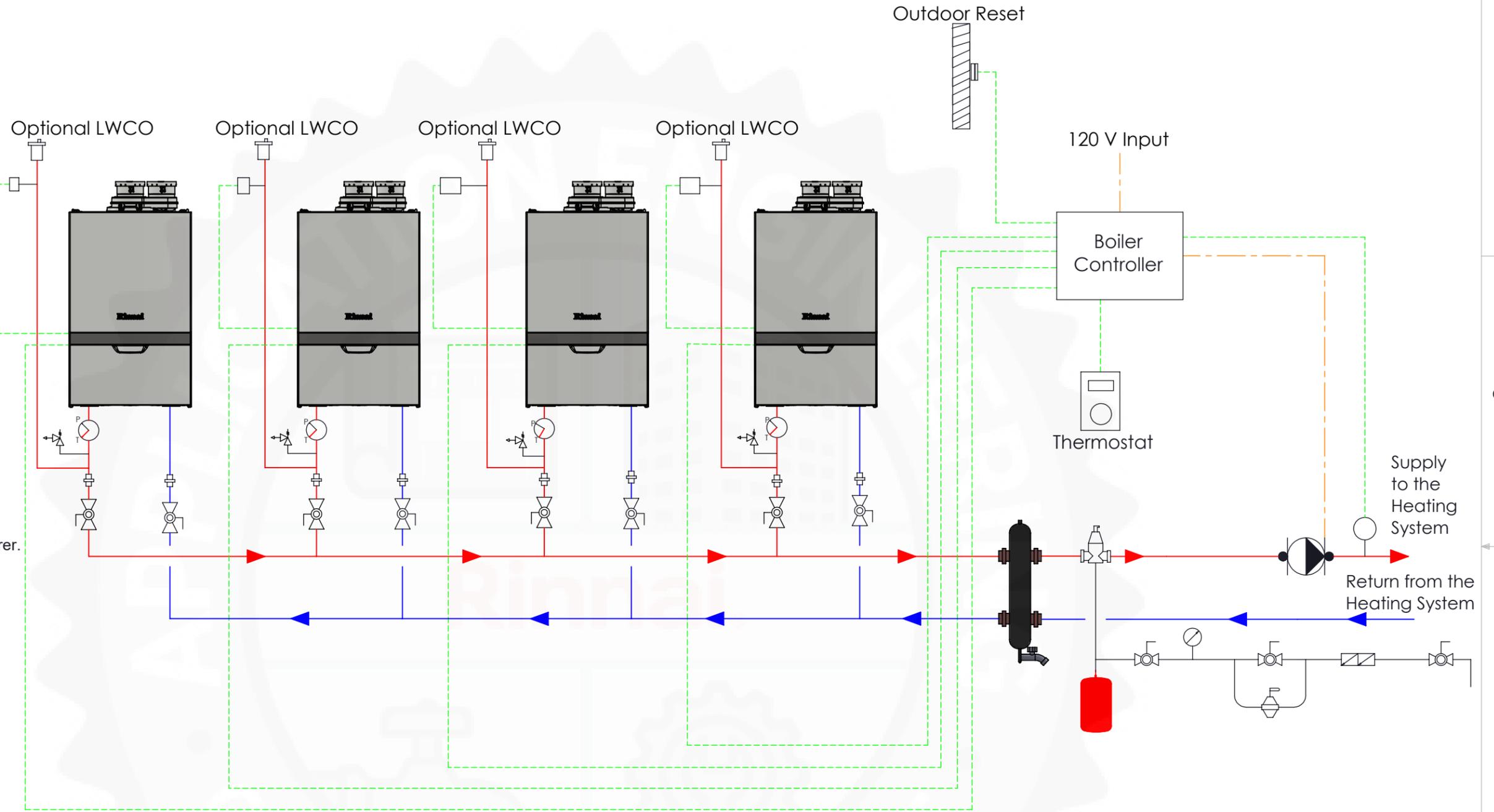
Primary/secondary piping is necessary in all the application - except for single loop with lower system pressure drop. Refer to boiler pump curve from the installation manual.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.

Reference hydraulic separator manufacturer.

Reference third party boiler controller for the wiring diagrams.



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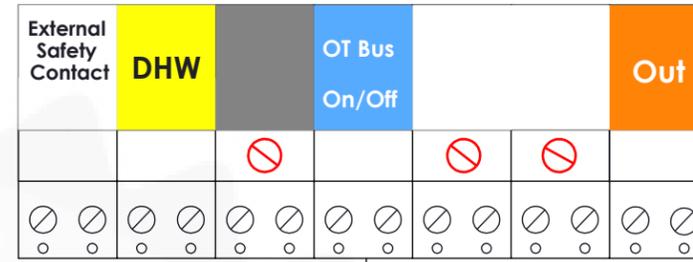
	NAME	DATE
DRAWN	PP	04.30.2019
CHECKED	RS	04.30.2019
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai		
TITLE: Four M-Series Solo Boilers with Low Loss Header		
SIZE	DWG. NO.	REV
B	4M-S-XX-LLH	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

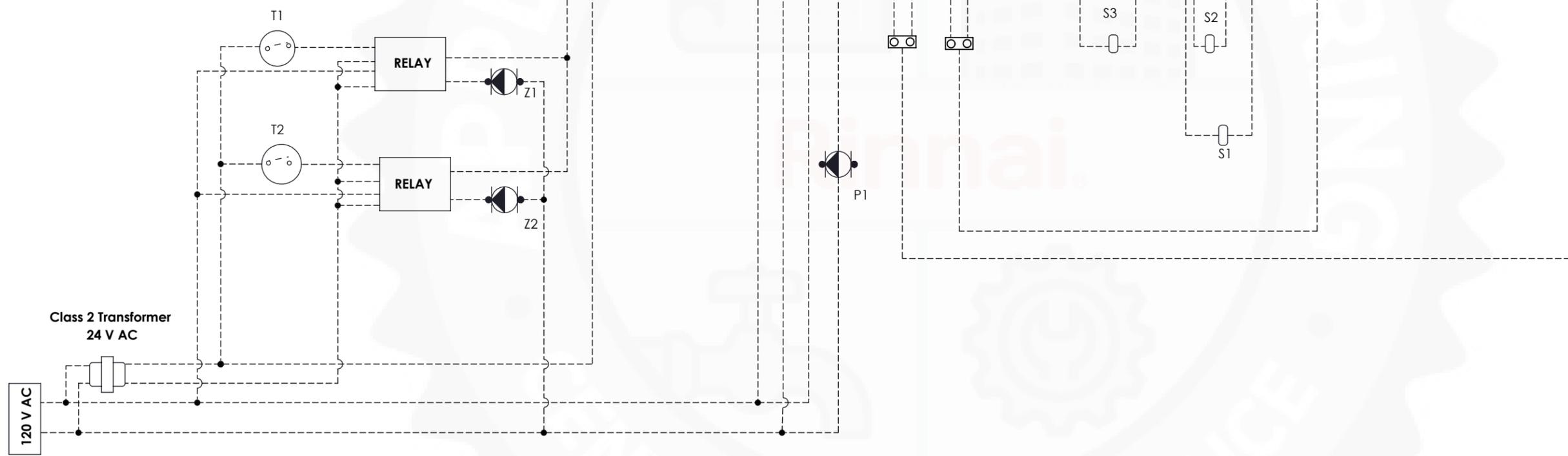
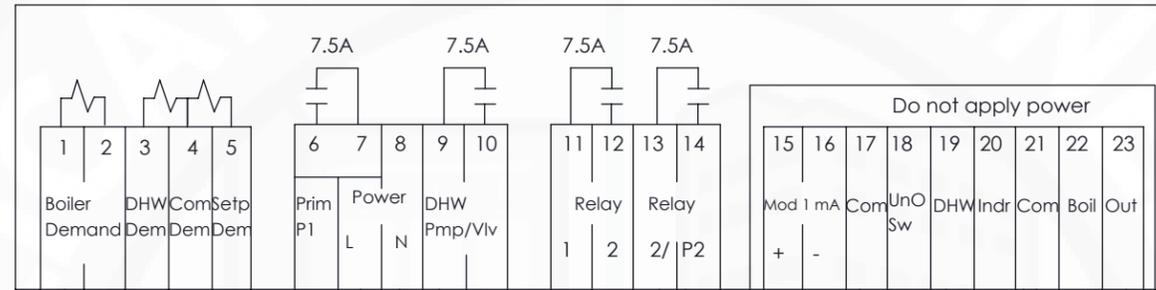
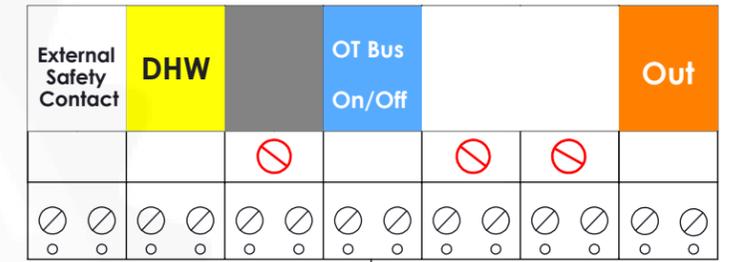
****FIELD SUPPLIED ZONE CONTROLLER****

Relay = 24 V AC DPDT Electrical Relay
 P1 = DHW Circulator (for indirect tank)
 Z1, Z2 = Zone Circulators
 T1, T2 = Thermostats (heat demand control)
 S1 = Outdoor Sensor
 S2 = Boiler Supply Sensor
 S3 = DHW Submersible Sensor (for DHW pump control)

Solo Boiler 1



Solo Boiler 2



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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

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	NAME	DATE
DRAWN	AN	03/22/2019
CHECKED	RS	03/29/2019
ENG APPR.		
COMMENTS:		

Rinnai

TITLE:
Two M-Series Solo Boilers with Indirect Tank, Two Heating Zones with Zone Pumps

SIZE	DWG. NO.	REV
B	MW-2S-2ZP-I	0

SCALE: NTS WEIGHT: SHEET 1 OF 1

****FIELD SUPPLIED ZONE CONTROLLER****

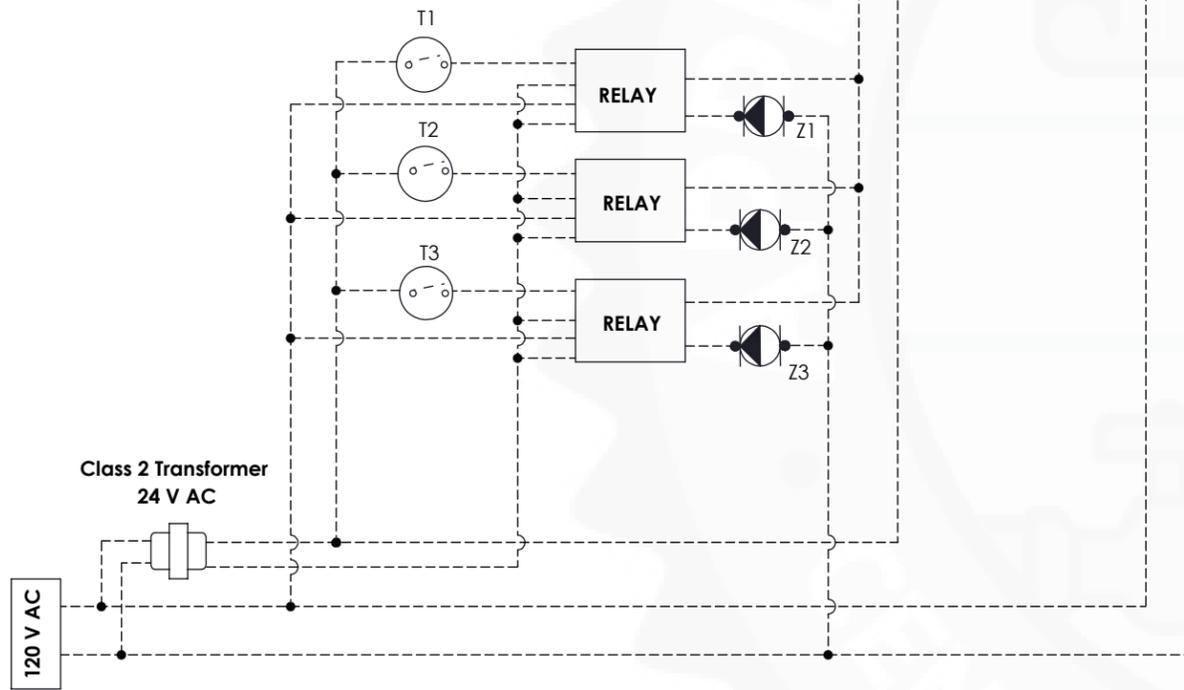
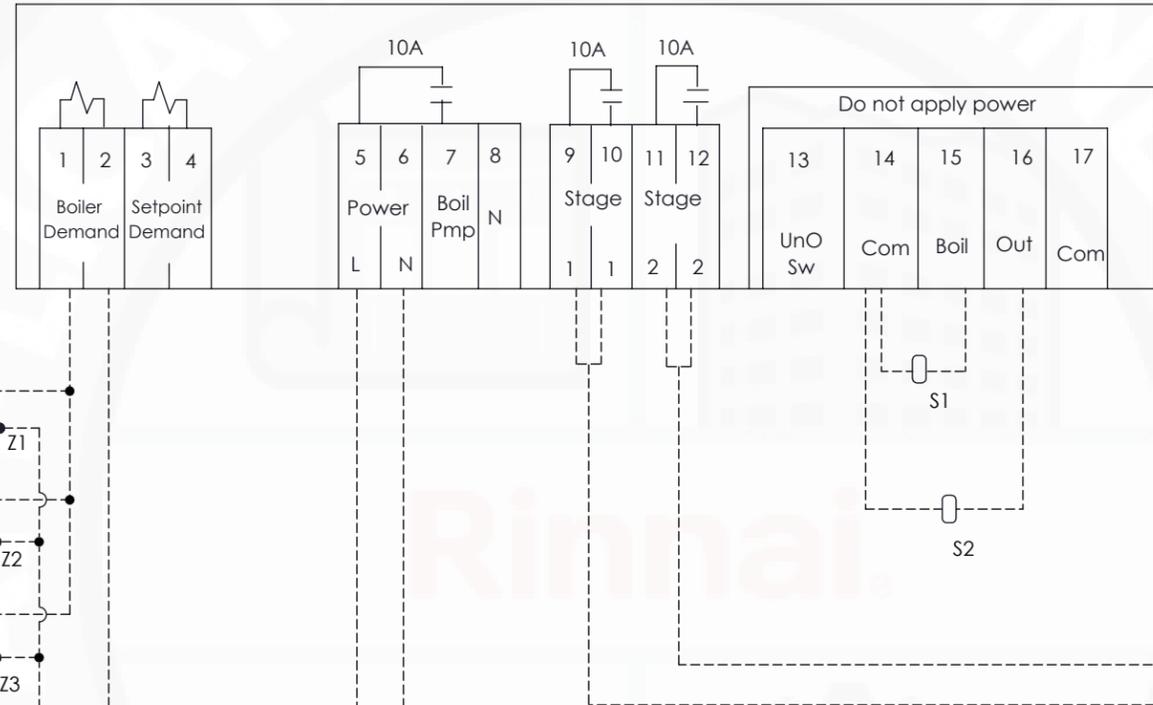
Relay = 24 V AC DPDT Electrical Relay
 Z1, Z2, Z3 = Zone Circulators
 T1, T2, T3 = Thermostats(heat demand control)
 S1 = Boiler Sensor
 S2 = Outdoor Sensor

Solo Boiler 1

External Safety Contact	DHW		OT Bus On/Off			Out
		⊘		⊘	⊘	
⊘	⊘	⊘	⊘	⊘	⊘	⊘

Solo Boiler 2

External Safety Contact	DHW		OT Bus On/Off			Out
		⊘		⊘	⊘	
⊘	⊘	⊘	⊘	⊘	⊘	⊘



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INTERPRET GEOMETRIC TOLERANCING PER:

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	NAME	DATE
DRAWN	AN	03/22/2019
CHECKED	RS	03/29/2019
ENG APPR.		
COMMENTS:		

Rinnai

TITLE:
 Two M-Series Solo Boilers for Heating Only - Three Heating Zones with Zone Pumps

SIZE	DWG. NO.	REV
B	MW-2S-3ZP	0

SCALE: NTS WEIGHT: SHEET 1 OF 1

****FIELD SUPPLIED ZONE CONTROLLER****

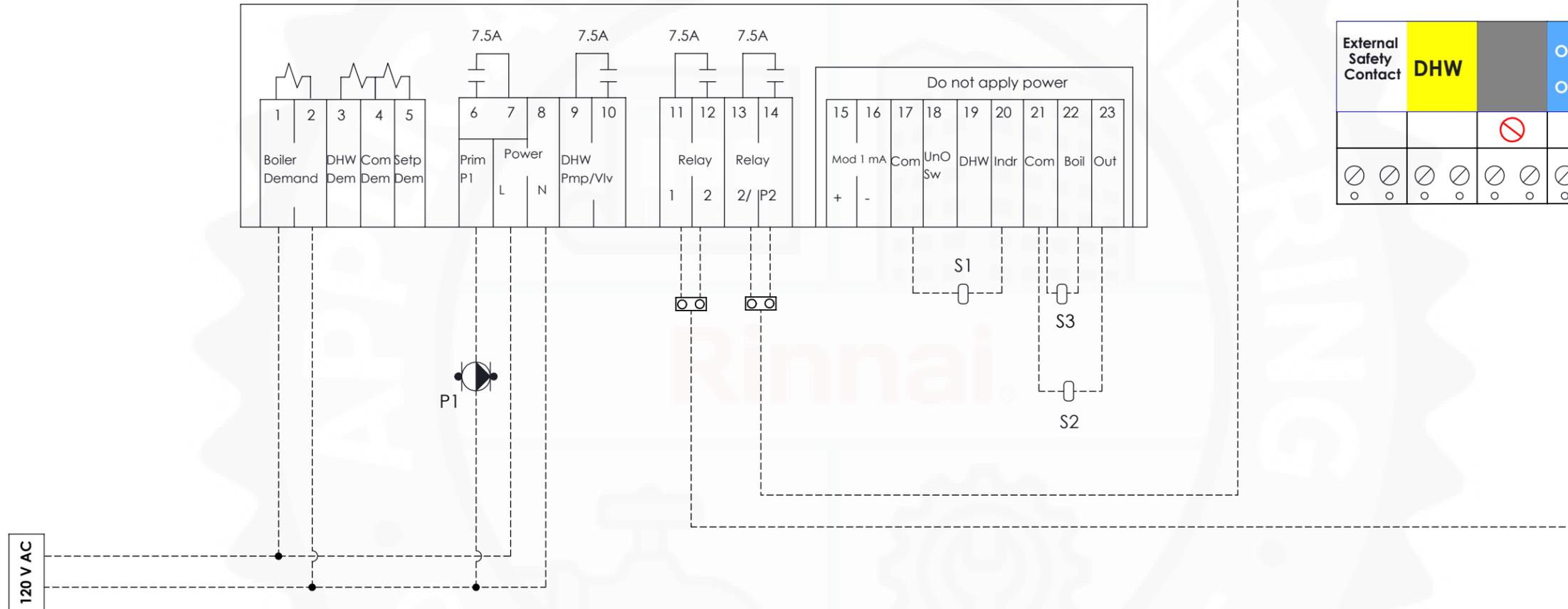
P1 = Primary Circulator for space heating
 S1 = Indoor Sensor
 S2 = Outdoor Sensor
 S3 = Boiler Supply Sensor

Solo Boiler 1

External Safety Contact	DHW		OT Bus On/Off			Out
		⊘		⊘	⊘	
⊘	⊘	⊘	⊘	⊘	⊘	⊘

Solo Boiler 2

External Safety Contact	DHW		OT Bus On/Off			Out
		⊘		⊘	⊘	
⊘	⊘	⊘	⊘	⊘	⊘	⊘



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	NAME	DATE
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ENG APPR.		
COMMENTS:		

Rinnai		
TITLE: Two M-Series Solo Boilers for Space Heating Only		
SIZE	DWG. NO.	REV
B	MW-2S-SH	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

****FIELD SUPPLIED ZONE CONTROLLER****

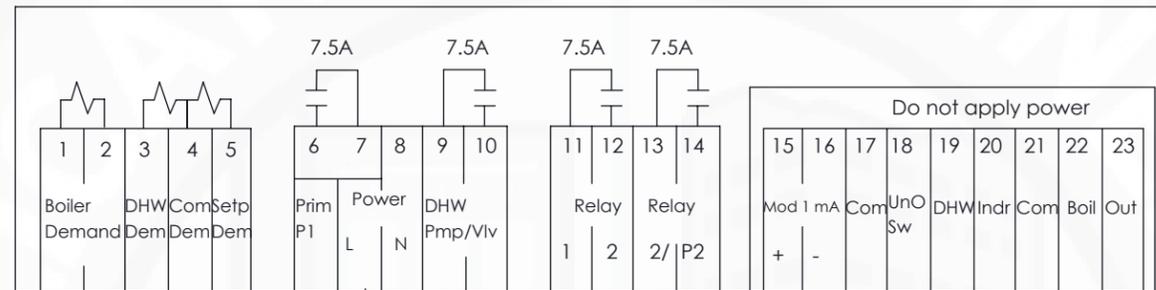
- P1 = Primary Circulator for space heating
- P2 = DHW Circulator (for indirect tank)
- S1 = Indoor Sensor
- S2 = Outdoor Sensor
- S3 = Boiler Supply Sensor
- S4 = DHW Submersible Sensor (for DHW pump control)

Solo Boiler 1

External Safety Contact	DHW		OT Bus On/Off			Out
		⊘		⊘	⊘	
⊘ ⊘	⊘ ⊘	⊘ ⊘	⊘ ⊘	⊘ ⊘	⊘ ⊘	⊘ ⊘

Solo Boiler 2

External Safety Contact	DHW		OT Bus On/Off			Out
		⊘		⊘	⊘	
⊘ ⊘	⊘ ⊘	⊘ ⊘	⊘ ⊘	⊘ ⊘	⊘ ⊘	⊘ ⊘



120 V AC



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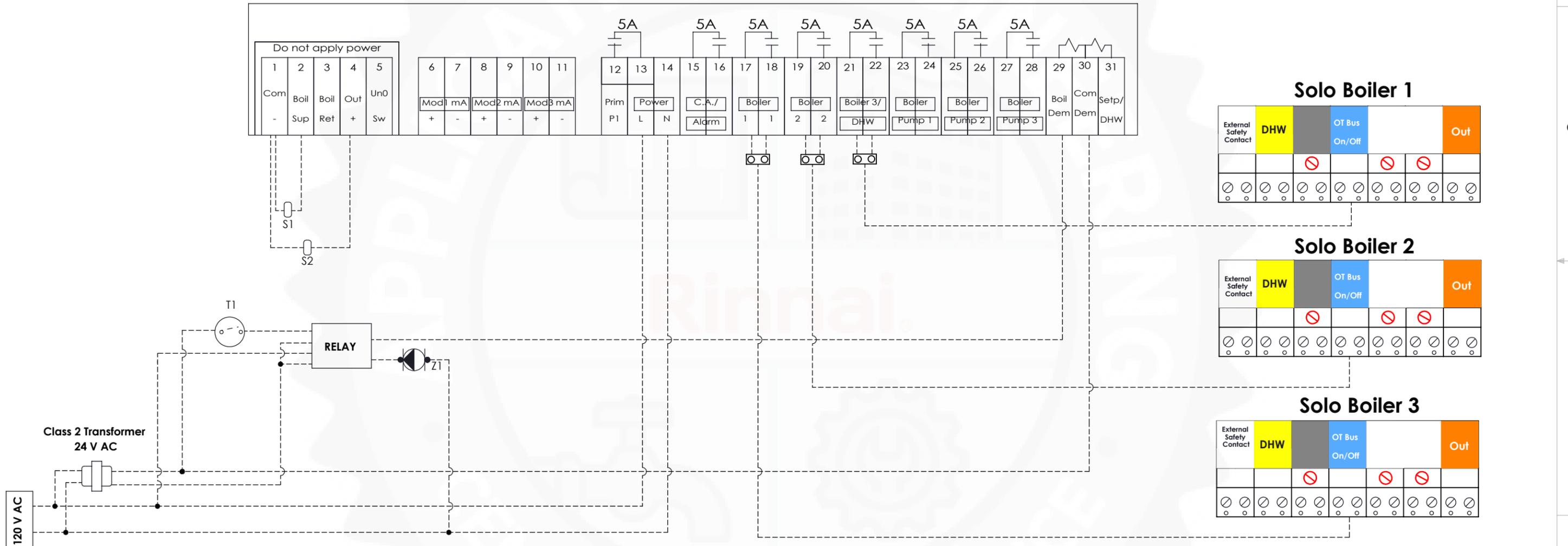
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Angle = ±0.010°
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	NAME	DATE
DRAWN	AN	03/22/2019
CHECKED	RS	03/29/2019
ENG APPR.		
COMMENTS:		

Rinnai		
TITLE: Two M-Series Solo Boilers with Indirect Tank and Space Heating		
SIZE	DWG. NO.	REV
B	MW-2S-SH-I	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1

****FIELD SUPPLIED ZONE CONTROLLER****

Relay = 24 V AC DPDT Electrical Relay
 Z1 = Zone Circulator
 T1 = Thermostat(heat demand control)
 S1 = Boiler Sensor
 S2 = Outdoor Sensor



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 MACHINED X.XXX = ±0.005
 Angle = ±0.010°

INTERPRET GEOMETRIC TOLERANCING PER:

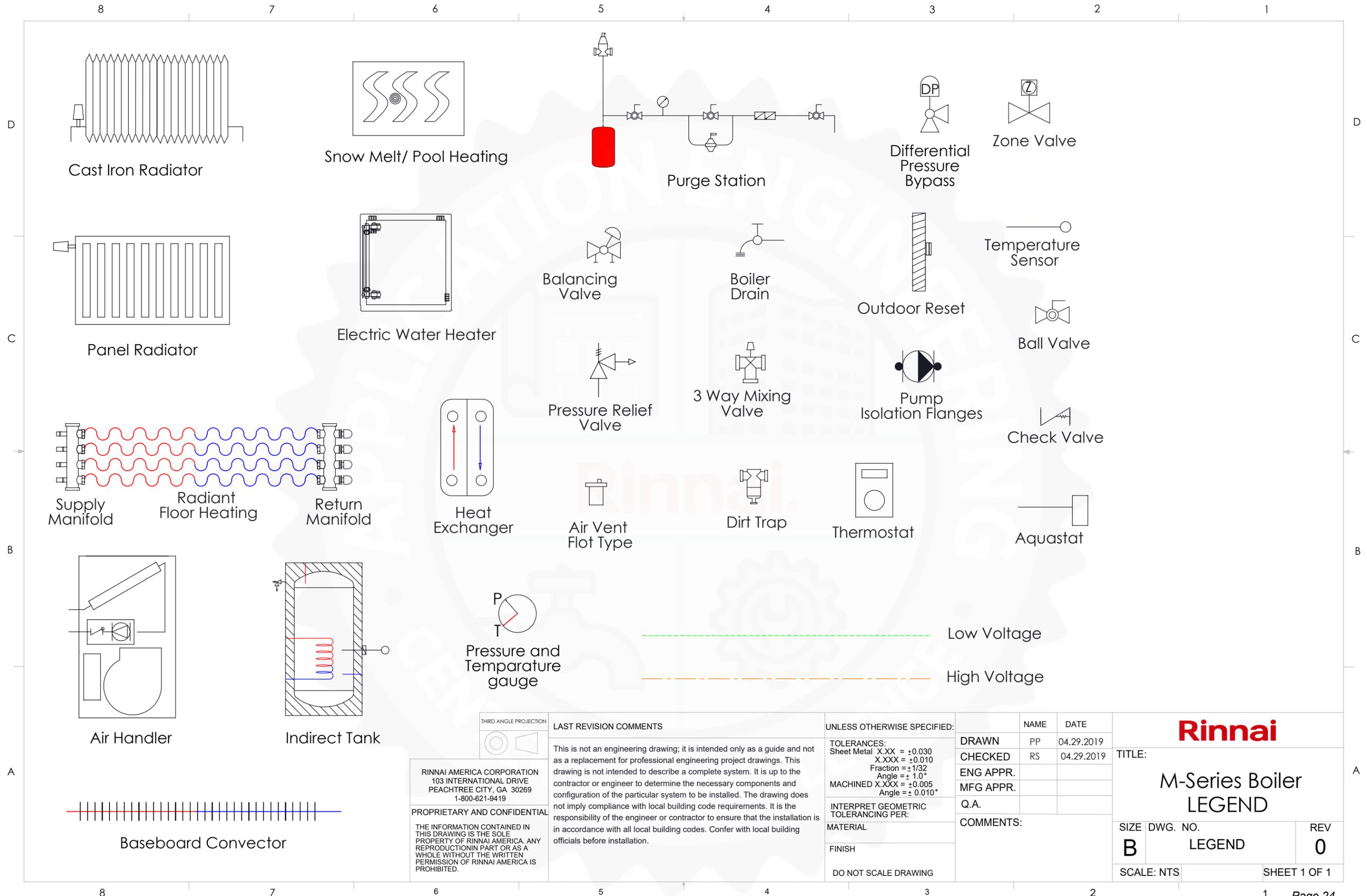
MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	AN	04/30/2019
CHECKED	RS	04/30/2019
ENG APPR.		
COMMENTS:		

Rinnai		
TITLE: Three M-Series Solo Boilers for Heating Only - One Heating Zone with Zone Pump		
SIZE	DWG. NO.	REV
B	MW-3S-1ZP	0
SCALE: NTS	WEIGHT:	SHEET 1 OF 1



THIRD ANGLE PROJECTION

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Fraction = ±1/32
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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

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	NAME	DATE
DRAWN	PP	04.29.2019
CHECKED	RS	04.29.2019
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Rinnai

TITLE: **M-Series Boiler LEGEND**

SIZE	DWG. NO.	REV
B	LEGEND	0

SCALE: NTS SHEET 1 OF 1



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