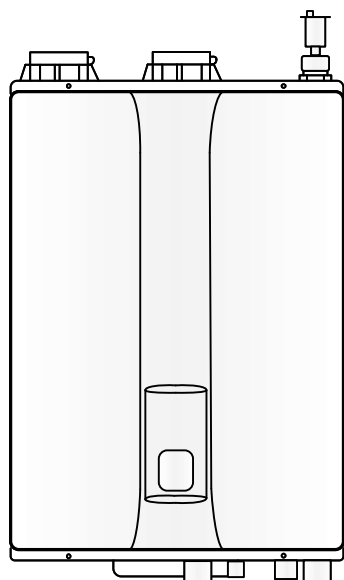
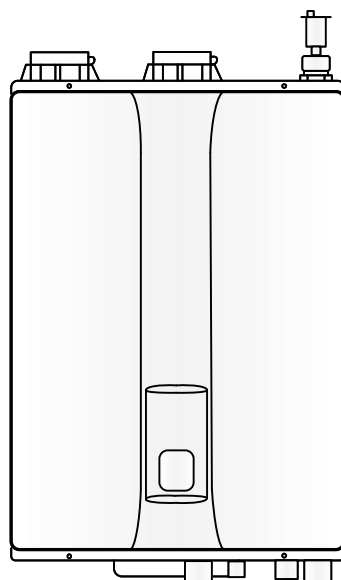


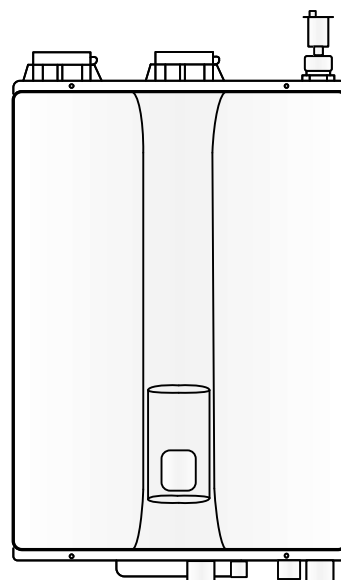
NHB Series Application Drawings



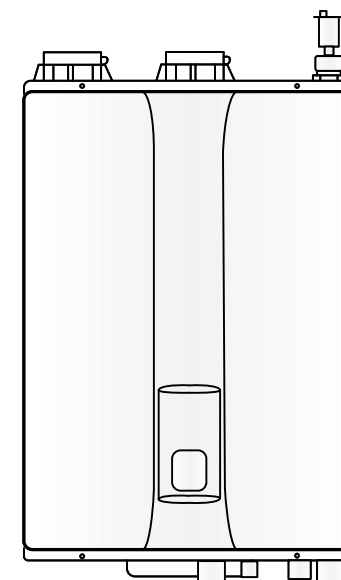
NHB-55



NHB-80



NHB-110



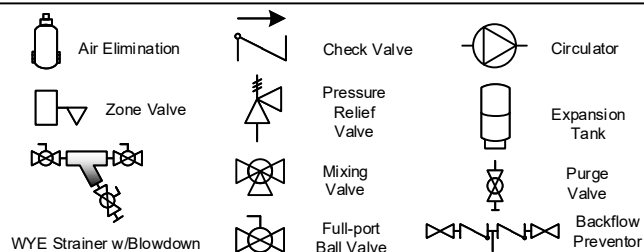
NHB-150



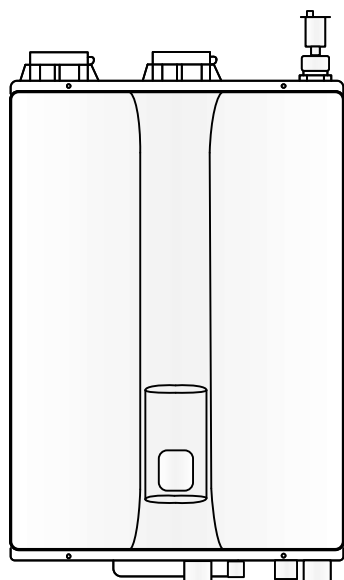
20 Goodyear
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www.Navien.com

Guide Only

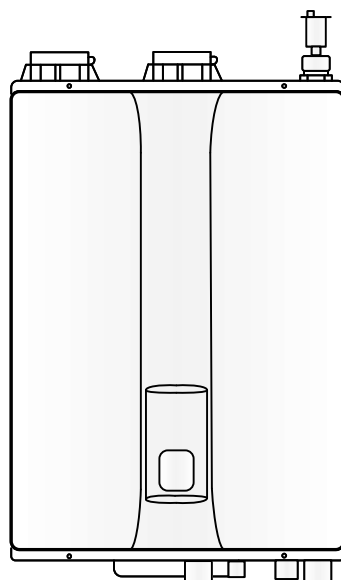
These drawing are intended as a guide only and not as a replacement for professionally engineered project drawings. These concept system drawings do not imply compliance with local building codes. Actual installations may vary depending on installation location & parameters and it must be done in accordance with all local building codes. Verify with local building officials before commencement of system installations.



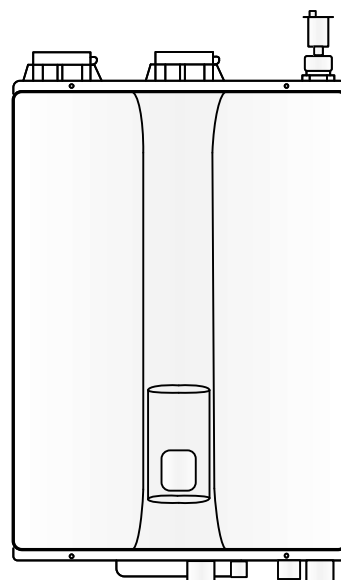
NHB Series Application Drawings



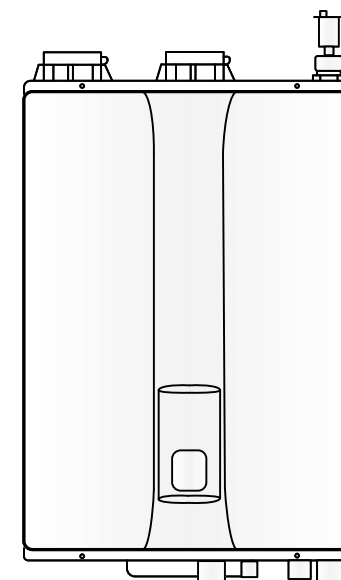
NHB-55



NHB-80



NHB-110



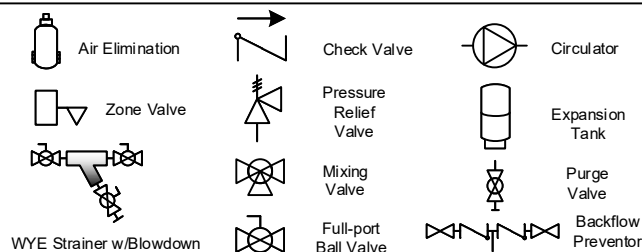
NHB-150



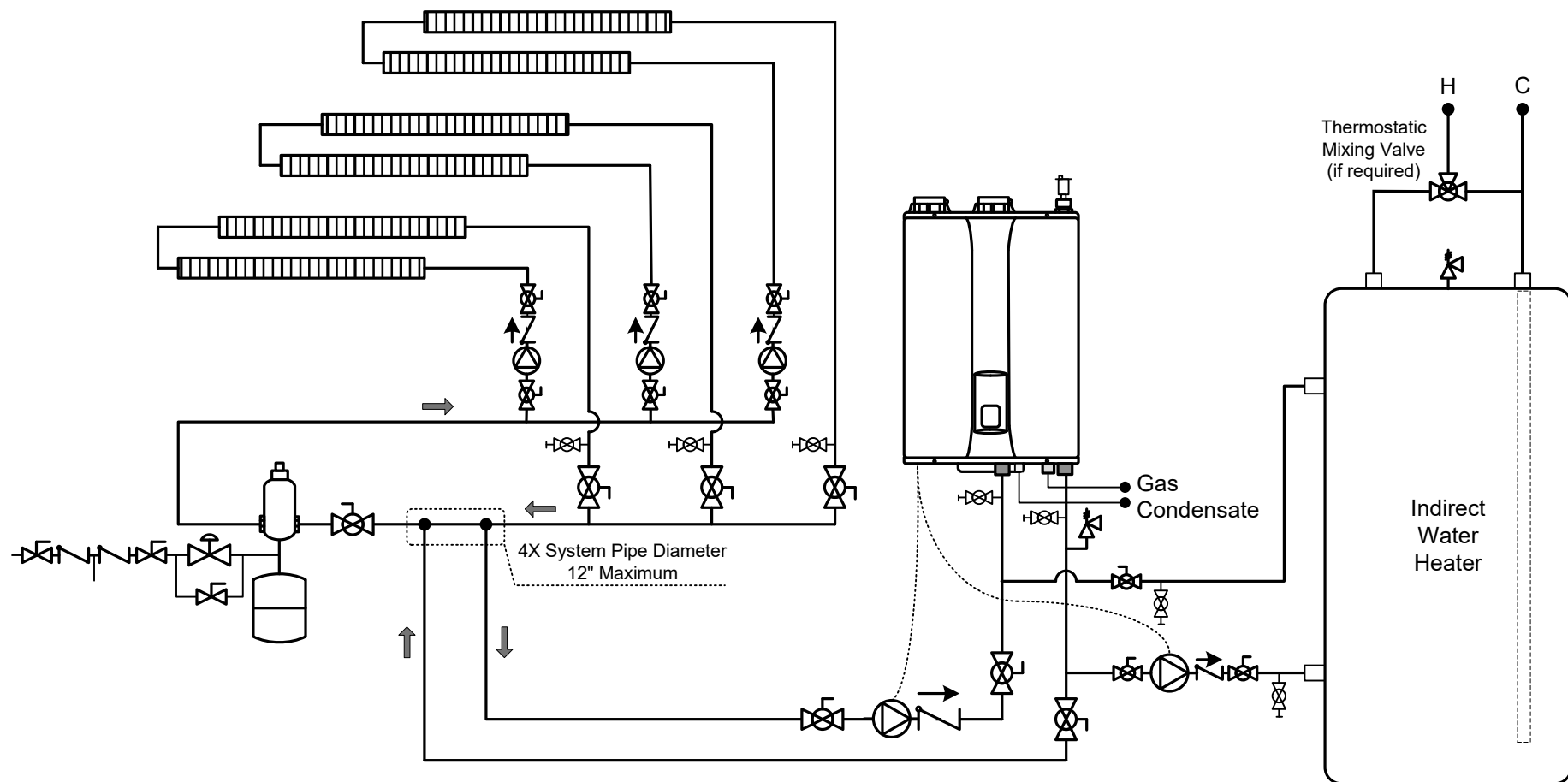
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Guide Only

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NHB Series Condensing Boiler

Navien NHB Boiler
With 3 Zone Pumps & Indirect Water Heater

Drawn By: BF

NHB-3ZP-IDWH-BF01

December 1, 2014

Air Elimination

Zone Valve

DHW Circulator
w/Aquastat & Check Valve

Check Valve

Pressure
Relief
Valve

Pressure
Reducing
Valve

Full-port
Ball Valve

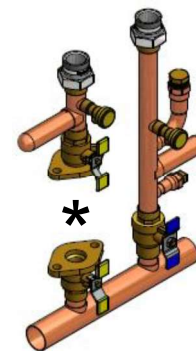
Circulator

Expansion
Tank

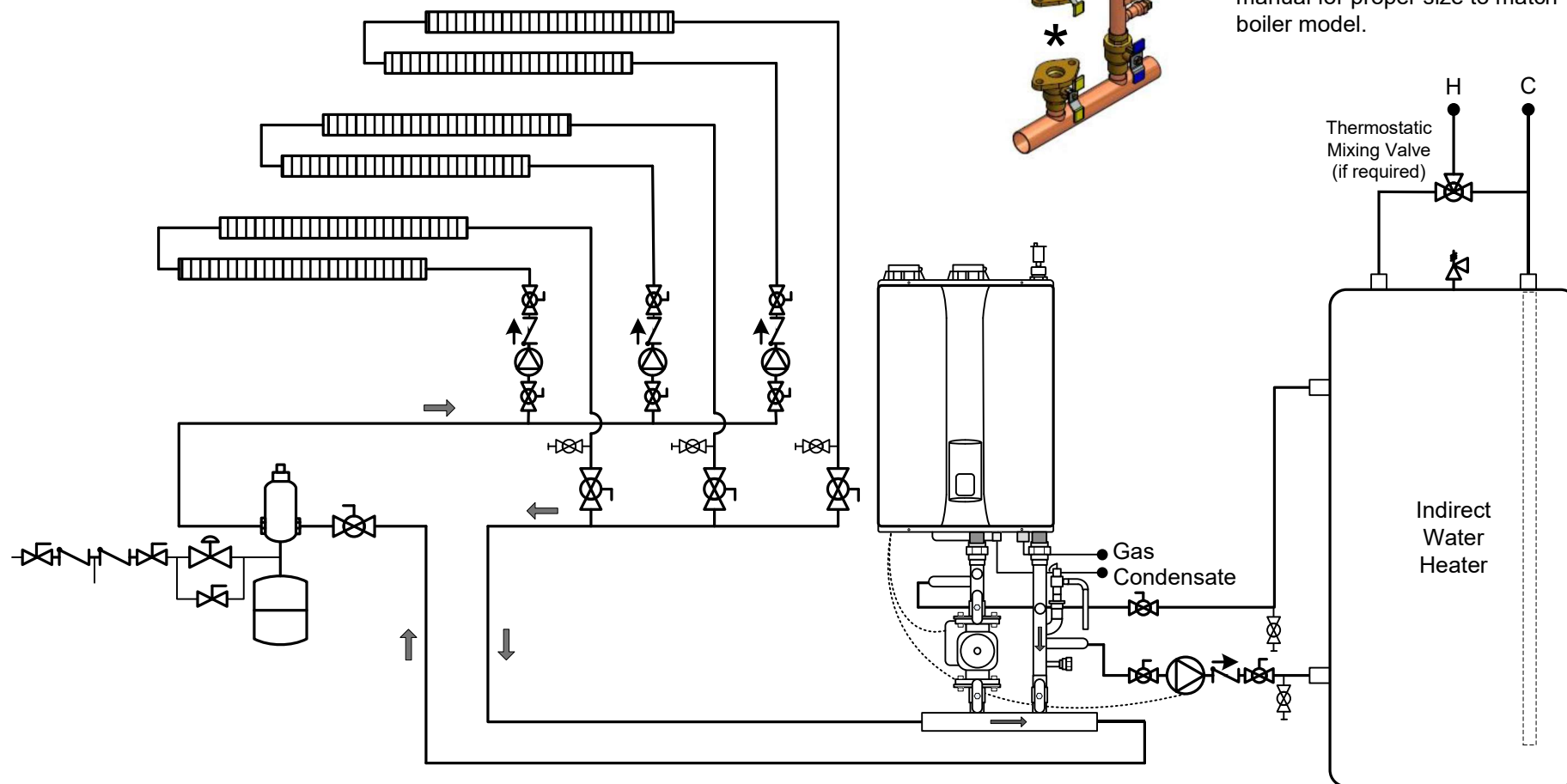
Purge
Valve

Backflow
Preventer

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NHB Series Condensing Boiler

Navien NHB Boiler
With 3 Zone Pumps
Navien NHB Series Primary Manifold
& Indirect Water Heater

Drawn By: BF

NHB-3ZP-PM-IDWH-BF01

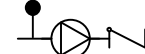
December 1, 2014



Air Elimination



Zone Valve



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure
Relief
Valve



Pressure
Reducing
Valve



Full-port
Ball Valve



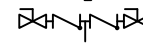
Circulator



Expansion
Tank

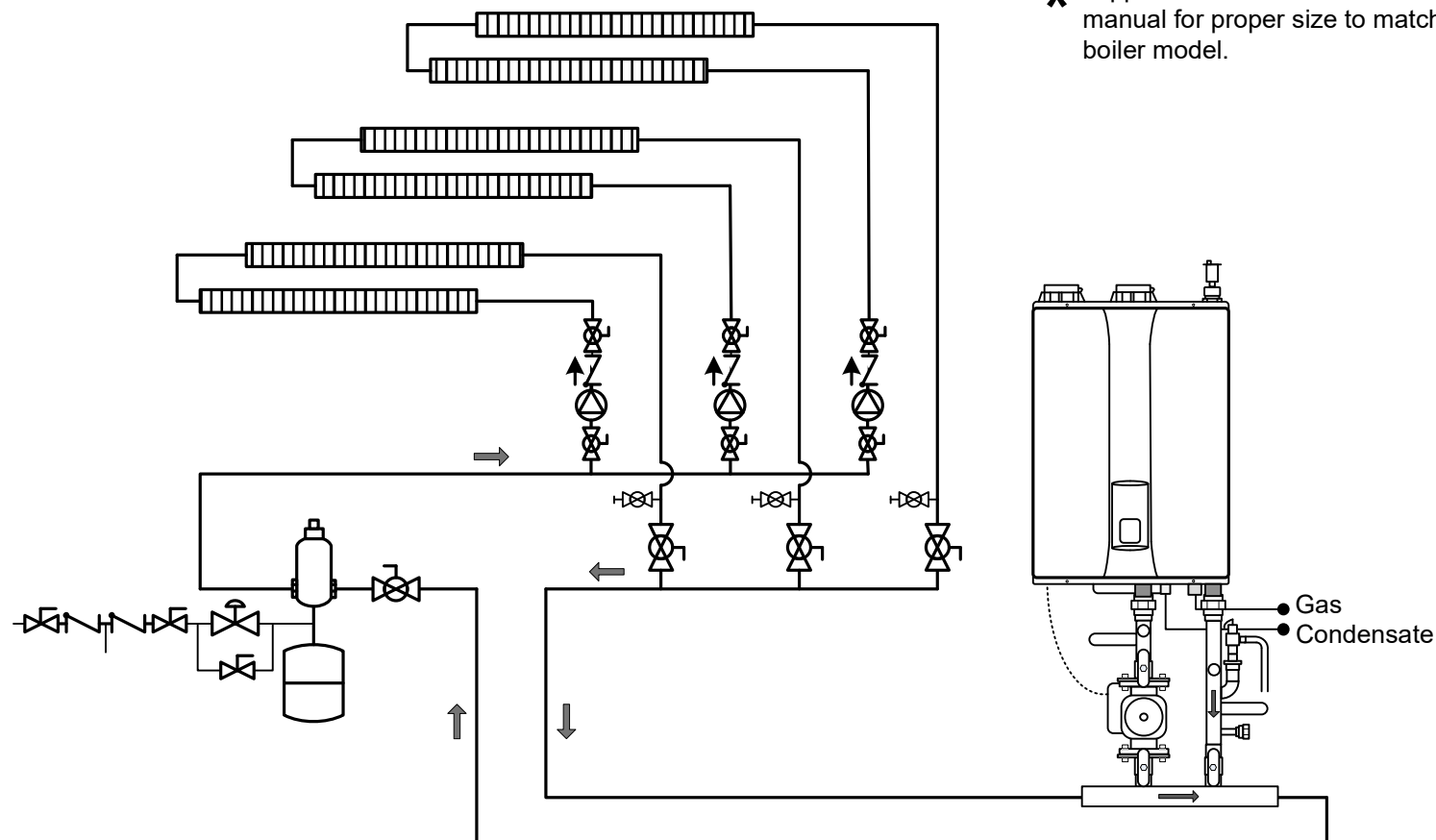


Purge
Valve



Backflow
Preventer

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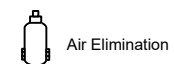
NHB Series Condensing Boiler

Navien NHB Boiler
With 3 Zone Pumps with
Navien NHB Series Primary Manifold

Drawn By: BF

NHB-3ZP-PM-BF01

December 1, 2014



Air Eliminator



Zone Valve



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure
Relief
Valve



Pressure
Reducing
Valve



Full-port
Ball Valve



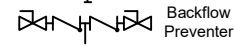
Circulator



Expansion
Tank

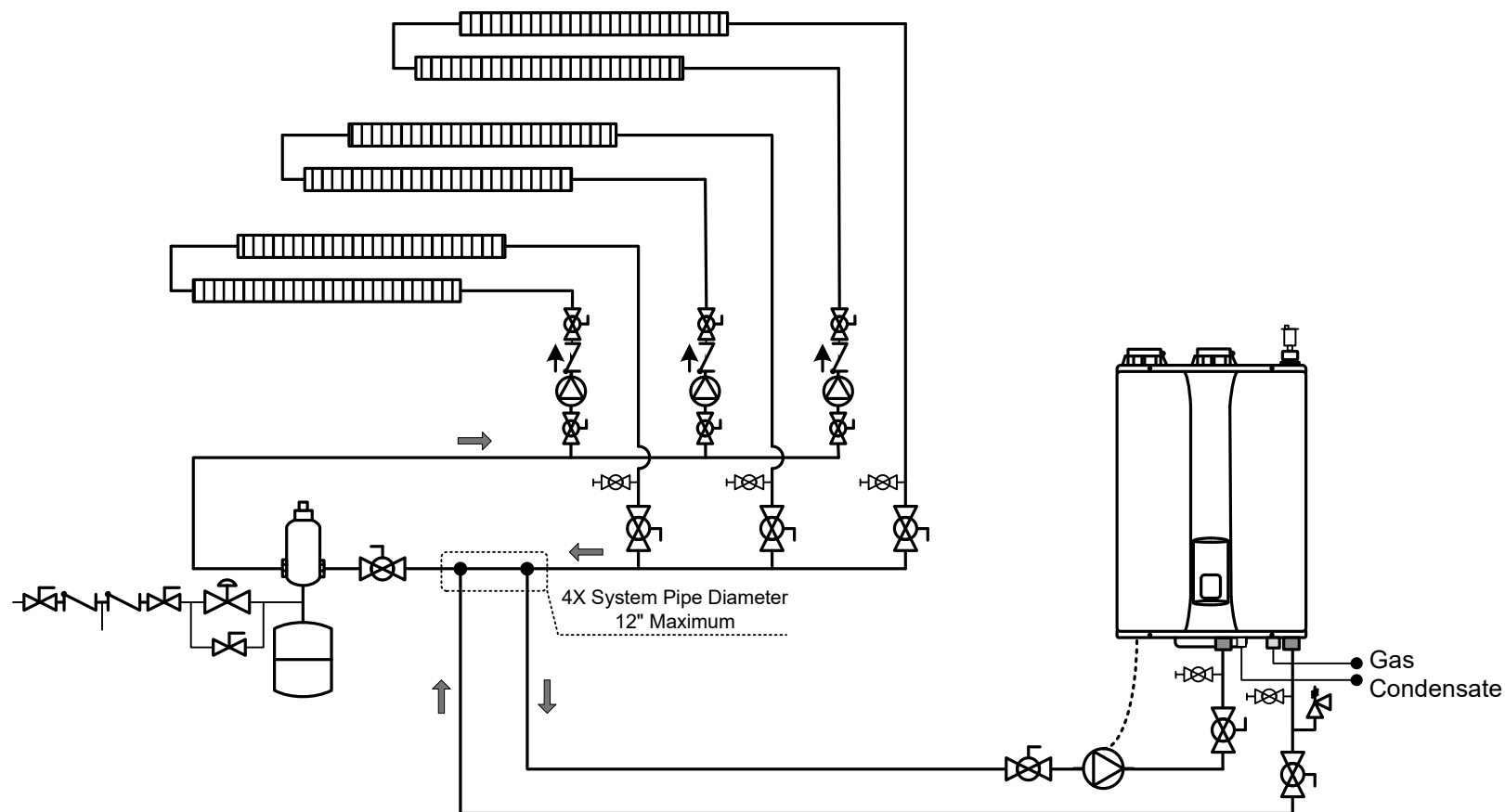


Purge
Valve



Backflow
Preventer

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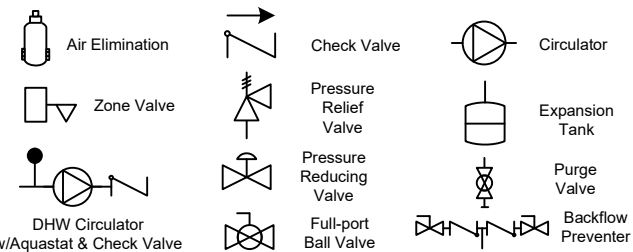
NHB Series Condensing Boiler

Navien NHB Boiler
With 3 Zone Pumps

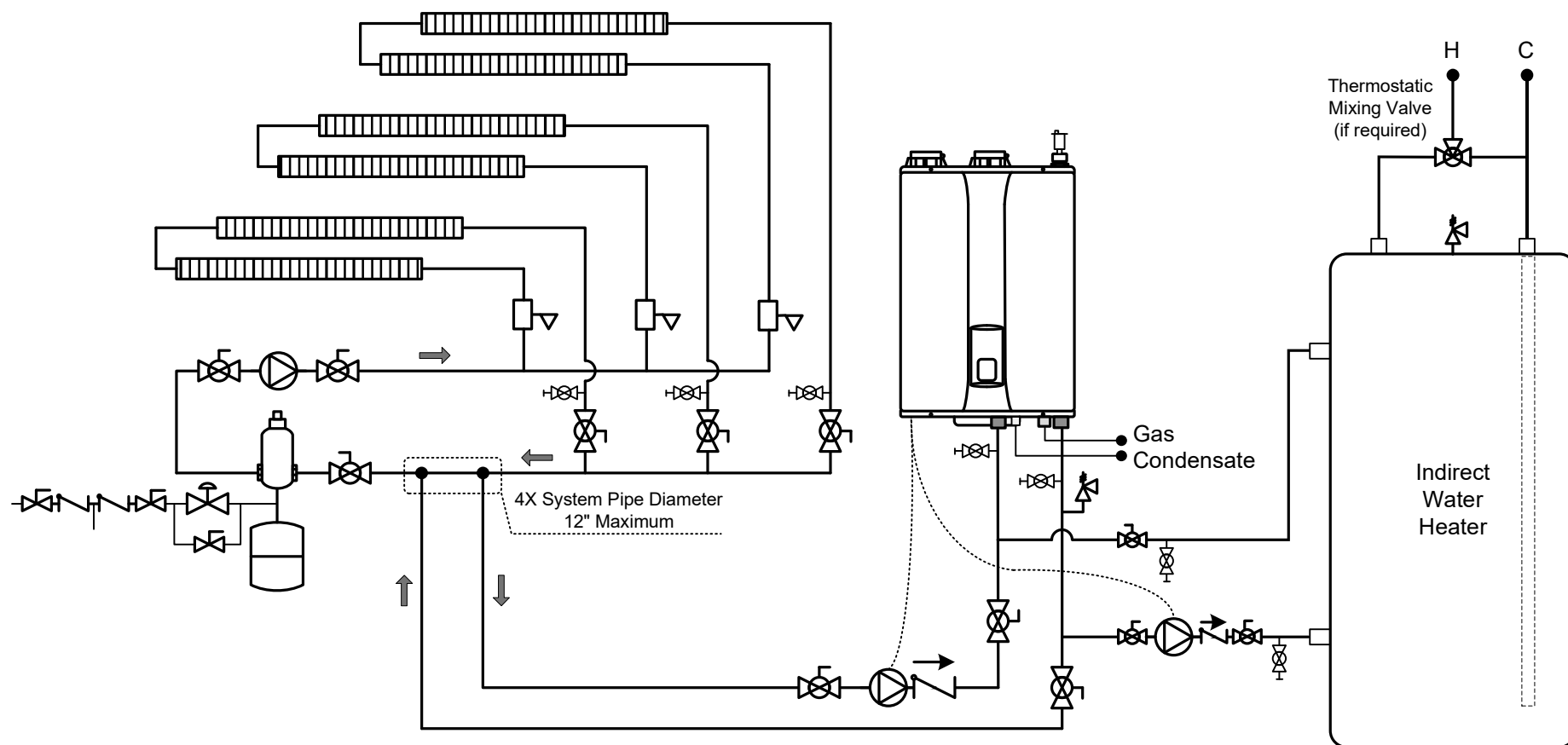
Drawn By: BF

NHB-3ZP-BF01

December 1, 2014



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NHB Series Condensing Boiler

Navien NHB Boiler
With 3 Zone Valves & Indirect Water Heater

Drawn By: BF

NHB-3ZV-IDWH-BF01

December 1, 2014



Air Elimination



Zone Valve



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure
Relief
Valve



Pressure
Reducing
Valve



Full-port
Ball Valve



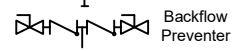
Circulator



Expansion
Tank

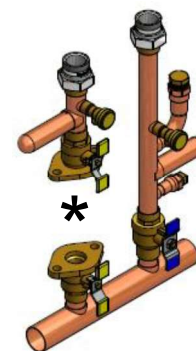


Purge
Valve

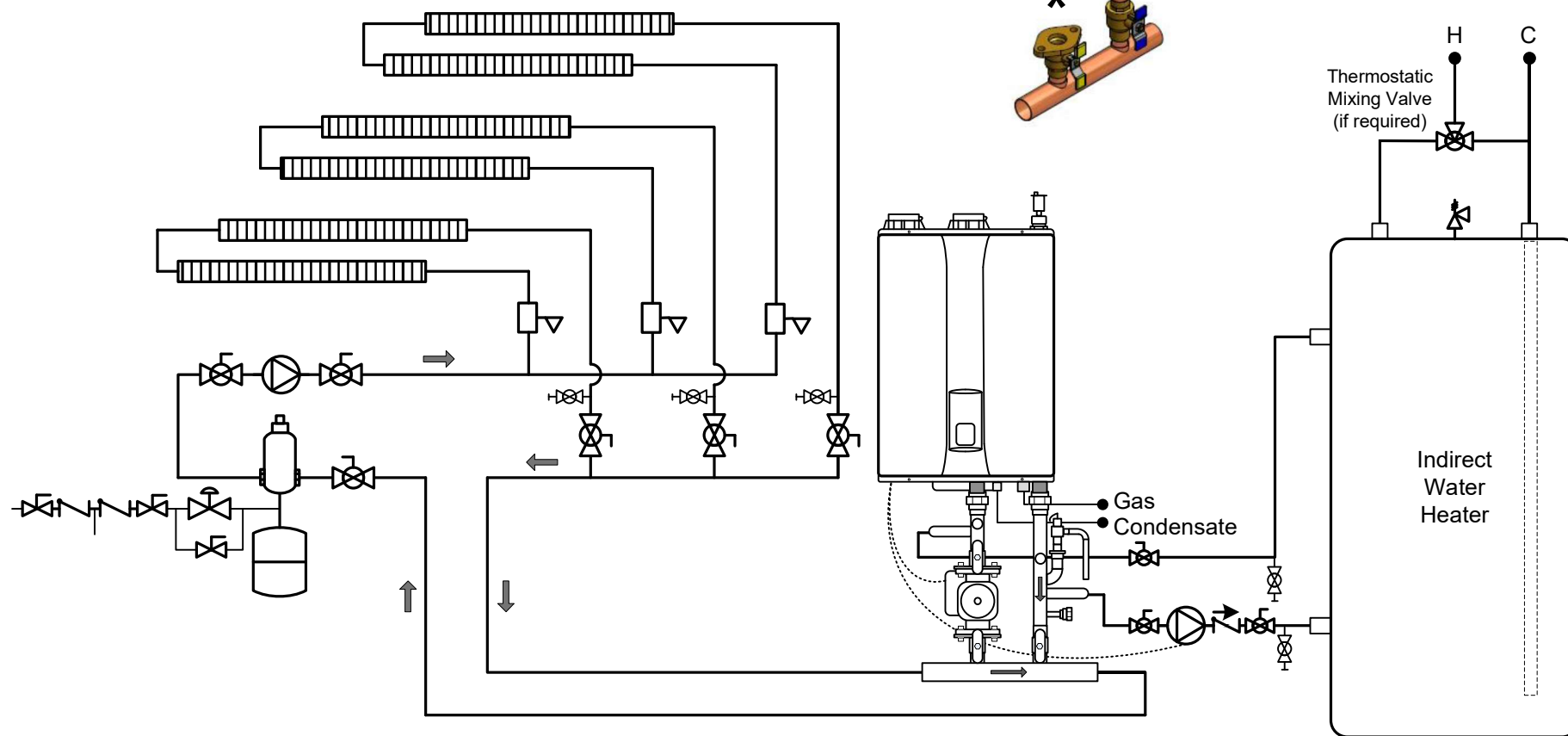


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NHB Series Condensing Boiler

Navien NHB Boiler
With 3 Zone Valves
Navien NHB Series Primary Manifold
& Indirect Water Heater

Drawn By: BF

NHB-3ZV-PM-IDWH-BF01

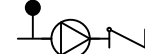
December 1, 2014



Air Elimination



Zone Valve



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure
Relief
Valve



Pressure
Reducing
Valve



Full-port
Ball Valve



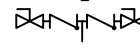
Circulator



Expansion
Tank

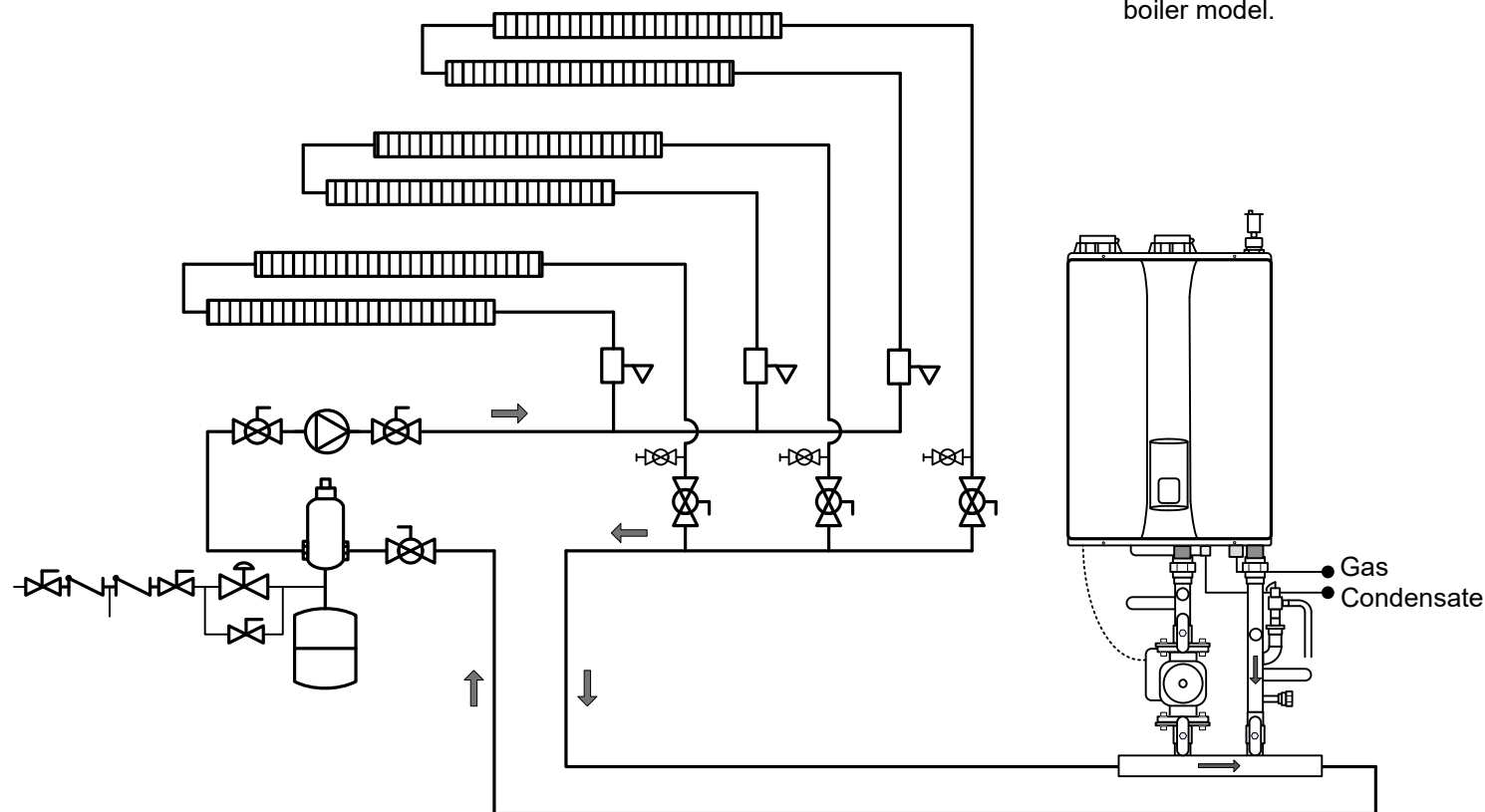


Purge
Valve

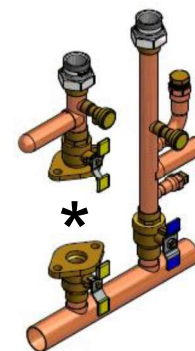


Backflow
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NHB Series Condensing Boiler

Navien NHB Boiler
With 3 Zone Valves with
Navien NHB Series Primary Manifold

Drawn By: BF

NHB-3ZV-PM-BF01

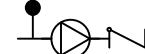
December 1, 2014



Air Elimination



Zone Valve



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure
Relief
Valve



Pressure
Reducing
Valve



Full-port
Ball Valve



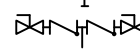
Circulator



Expansion
Tank

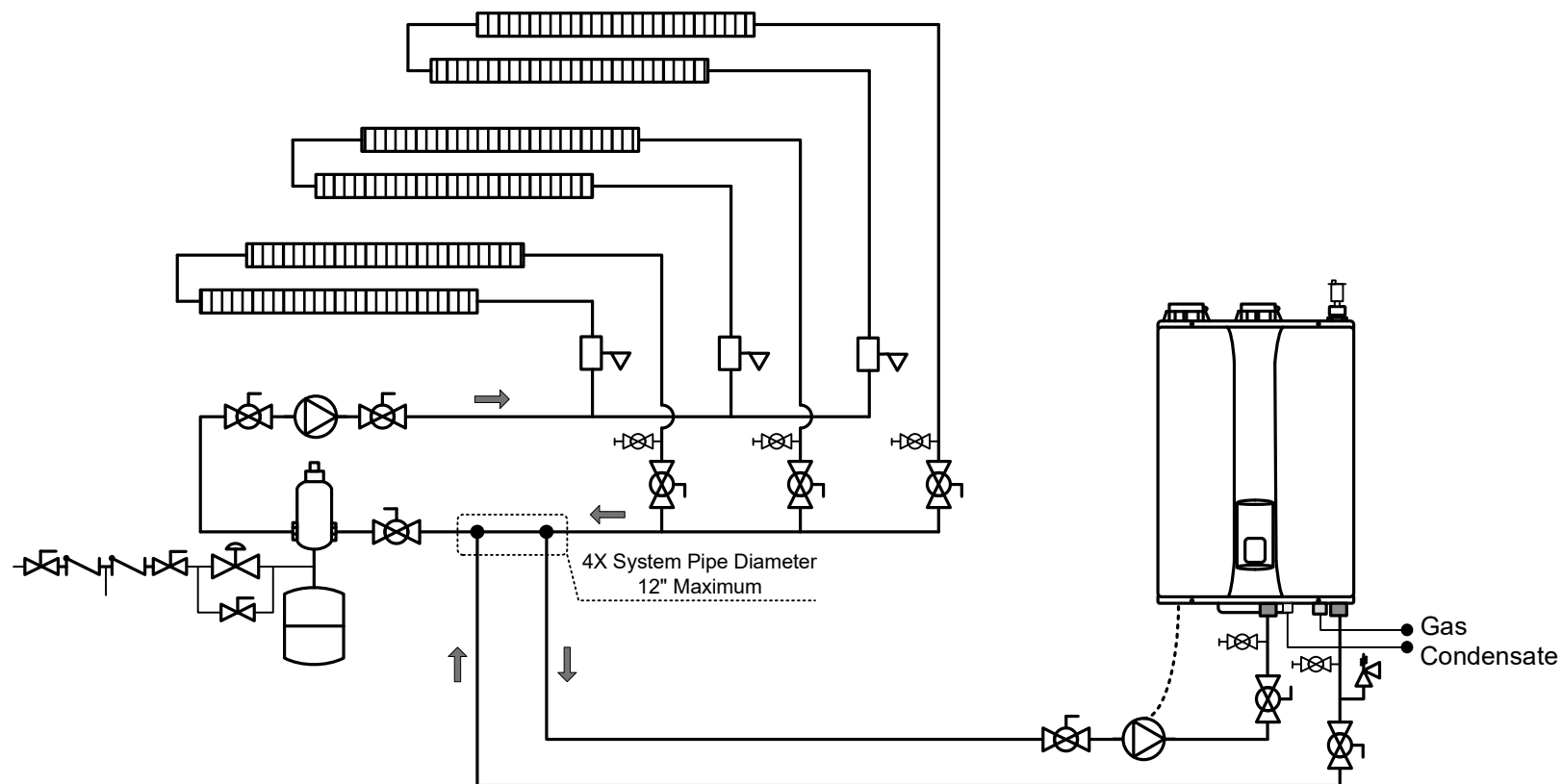


Purge
Valve



Backflow
Preventer

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NHB Series Condensing Boiler

Navien NHB Boiler
With 3 Zone Valves

Drawn By: BF

NHB-3ZV-BF01

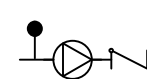
December 1, 2014



Air Elimination



Zone Valve



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure
Relief
Valve



Pressure
Reducing
Valve



Full-port
Ball Valve



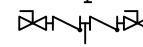
Circulator



Expansion
Tank



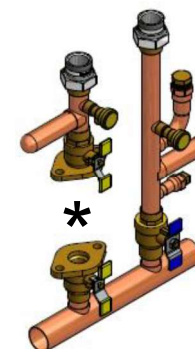
Purge
Valve






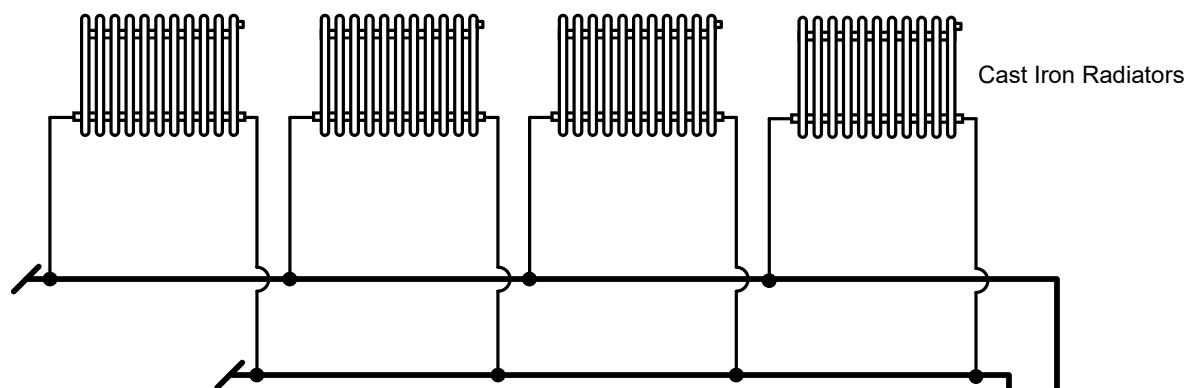
Backflow
Preventer

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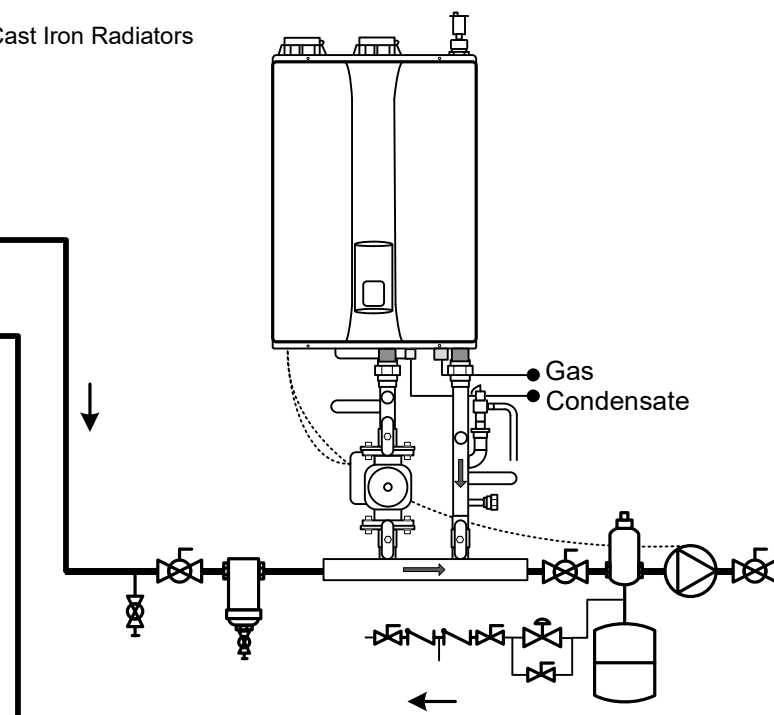
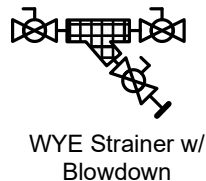
 Cast Iron Baseboard
 or
 Cast Iron Fin Tube
 or
 Cast Iron Radiators



Proper dirt separation must be used when applying the Navien NHB boiler with systems that contain ferrous or ferric materials.

Installation requires proper means of cleaning and flushing system piping prior to start-up to avoid potentiality subjecting the NHB boiler to system contaminants.

Proper air elimination & system maintenance is required to maintain Navien warranties.



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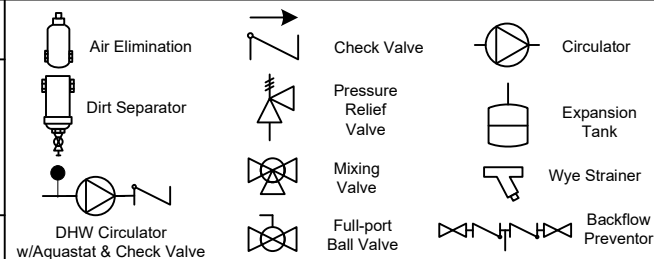
NHB Series Boiler

Navien NHB Boiler Application Two-Pipe Direct Return

Drawn By: BF

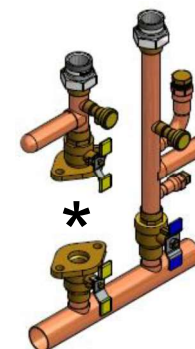
NHB-CI-2P-PM-DR-BF01




December 1, 2014

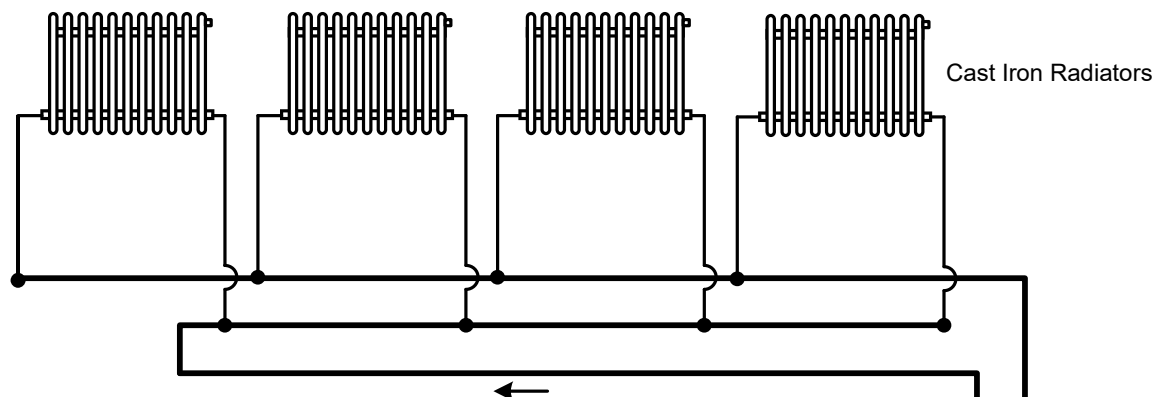


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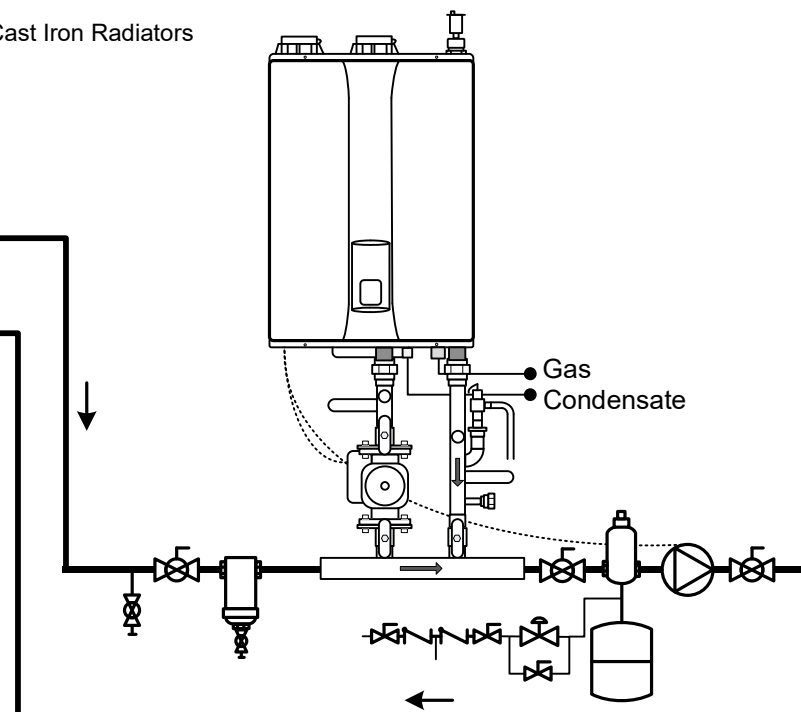
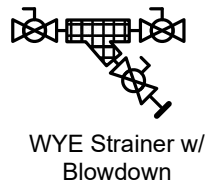
 Cast Iron Baseboard
 or
 Cast Iron Fin Tube
 or
 Cast Iron Radiators



Proper dirt separation must be used when applying the Navien NHB boiler with systems that contain ferrous or ferric materials.

Installation requires proper means of cleaning and flushing system piping prior to start-up to avoid potentiality subjecting the NHB boiler to system contaminants.

Proper air elimination & system maintenance is required to maintain Navien warranties.



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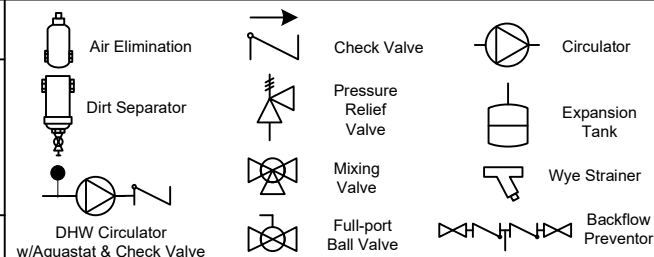
NHB Series Boiler

Navien NHB Boiler Application
Two-Pipe Reverse Return

Drawn By: BF

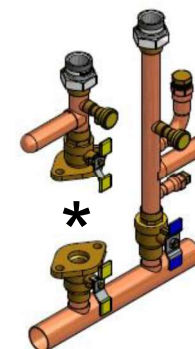
NHB-CI-2P-PM-RR-BF01

December 1, 2014

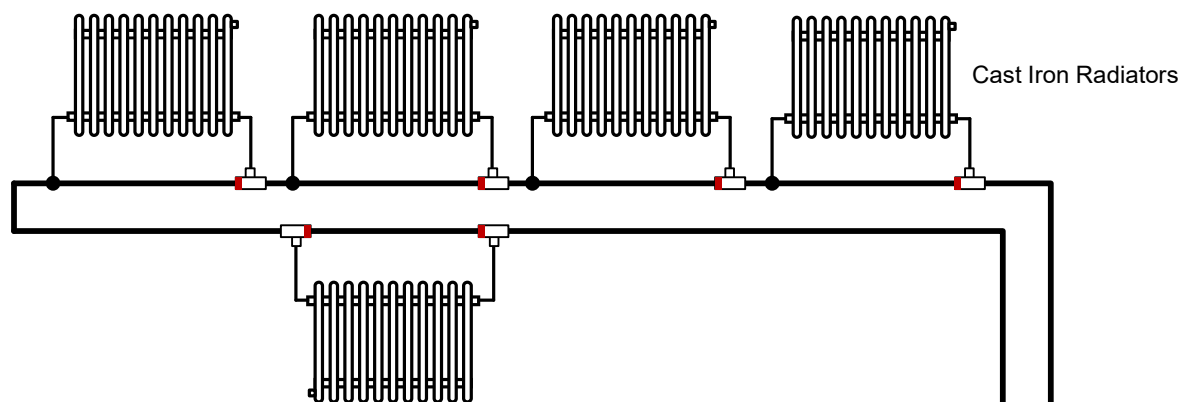


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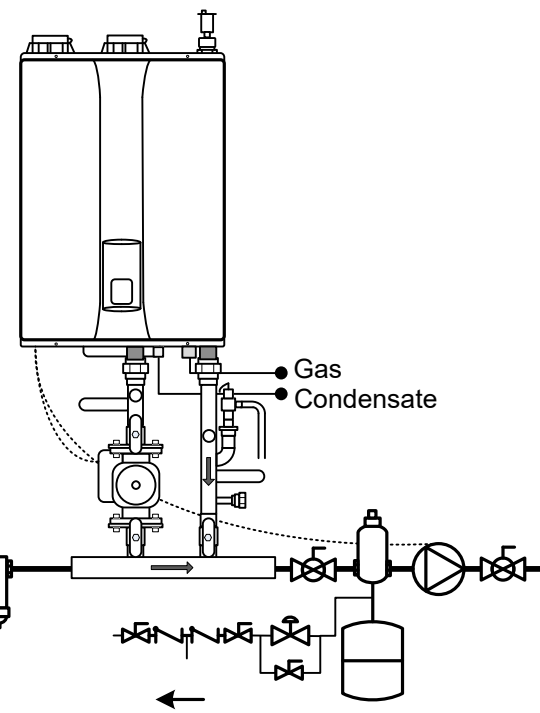
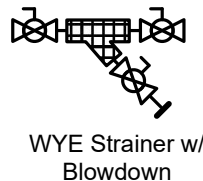
Cast Iron Baseboard
or
Cast Iron Fin Tube
or
Cast Iron Radiators



Proper dirt separation must be used when applying the Navien NHB boiler with systems that contain ferrous or ferric materials.

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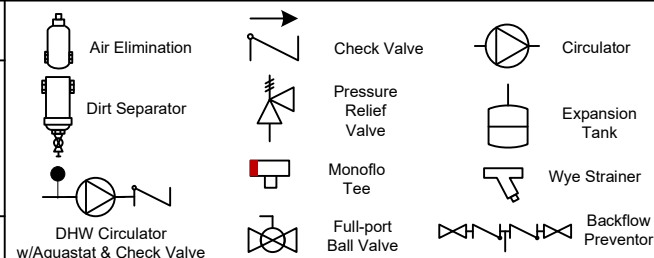
NHB Series Boiler

Navien NHB Boiler Application One-Pipe (Monoflo) Distribution System

Drawn By: BF

NHB-CI—PM-MONO-BF01

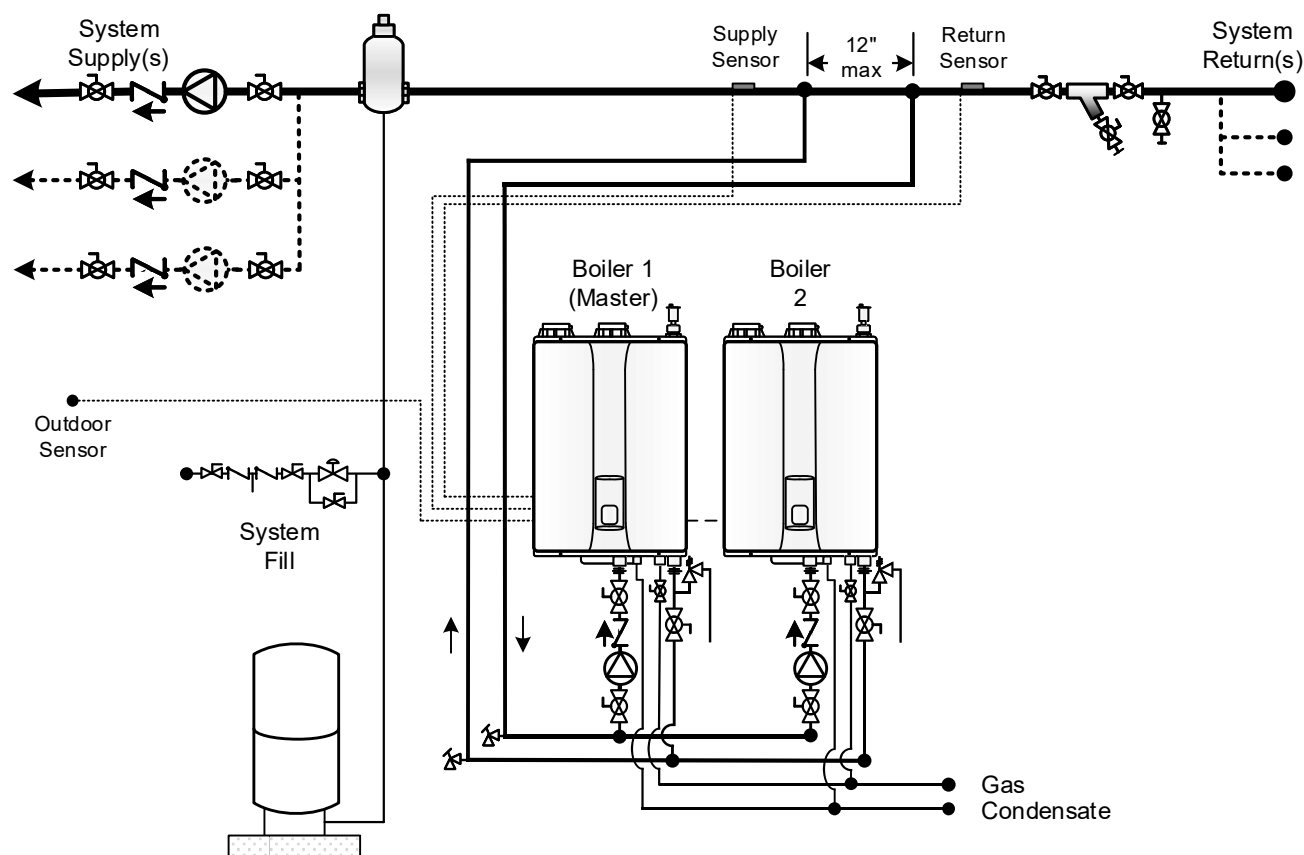
December 1, 2014



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Recommended System & Header Pipe Sizes-Total BTU (2- 4 Ft/Sec.)

1" - 55,000 to 110,000 BTU's	2" - 200,000 to 400,000 BTU's
1 ¼" - 85,000 to 160,000 BTU's	2 ½" - 300,000 to 610,000 BTU's
1 ½" - 115,000 to 230,000 BTU's	3" - 435,000 to 875,000 BTU's



--- Navien Communication Cable
(1 Less than total boiler count required)

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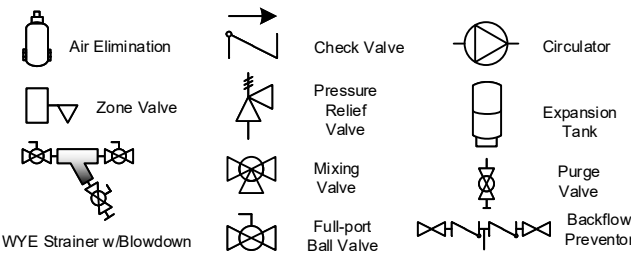
NHB Series Condensing Boiler

Navien NHB-110/150
Two Multiple Boiler Application

Drawn By: BF

NHB-110-150-2MULT-BF01

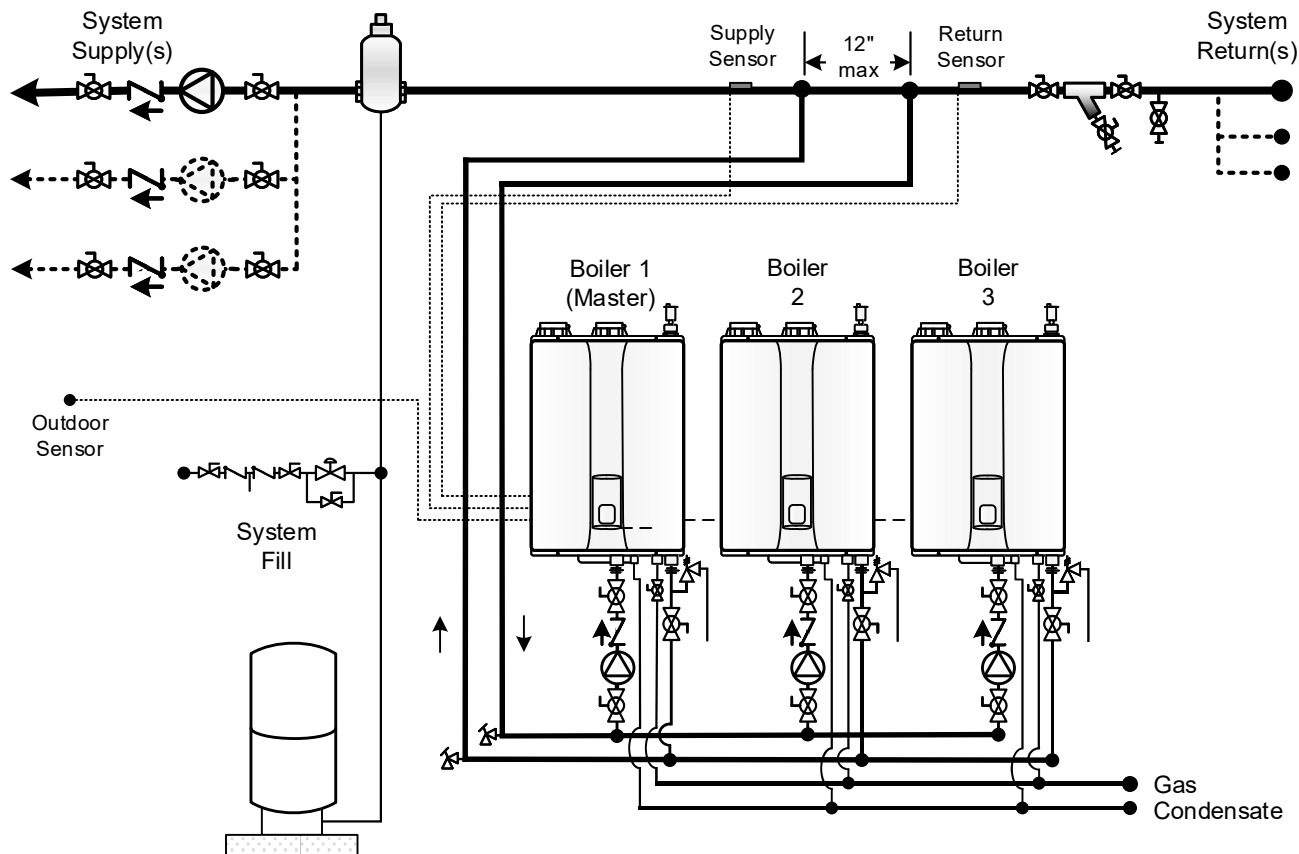
March 1, 2017



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1 ¼" - 85,000 to 160,000 BTU's	2 ½" - 300,000 to 610,000 BTU's
1 ½" - 115,000 to 230,000 BTU's	3" - 435,000 to 875,000 BTU's



--- Navien Communication Cable
(1 Less than total boiler count required)

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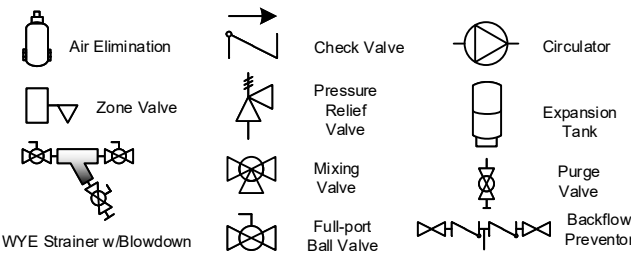
NHB Series Condensing Boiler

Navien NHB-110/150 Three Multiple Boiler Application

Drawn By: BF

NHB-110-150-3MULT-BF01

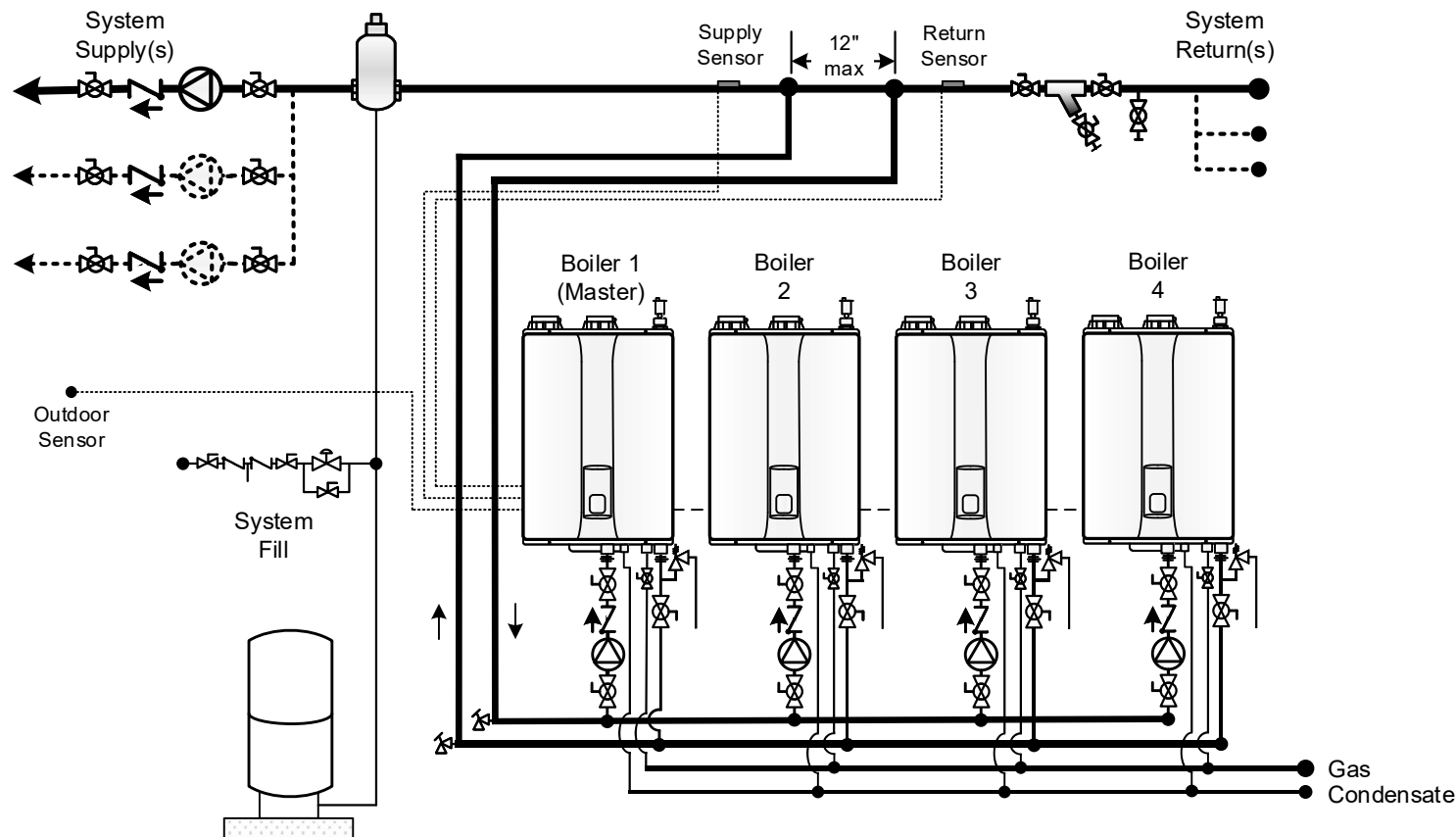
March 1, 2017



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Recommended System & Header Pipe Sizes-Total BTU (2- 4 Ft/Sec.)

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--- Navien Communication Cable
(1 Less than total boiler count required)

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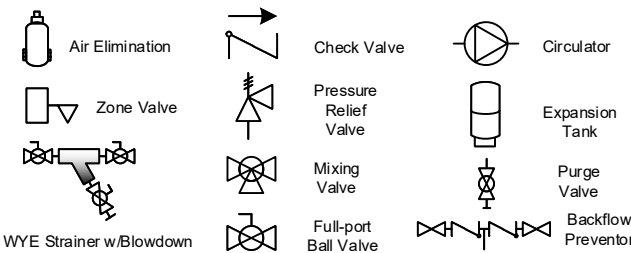
NHB Series Condensing Boiler

Navien NHB-110/150
Four Multiple Boiler Application

Drawn By: BF

NHB-110-150-4MULT-BF01

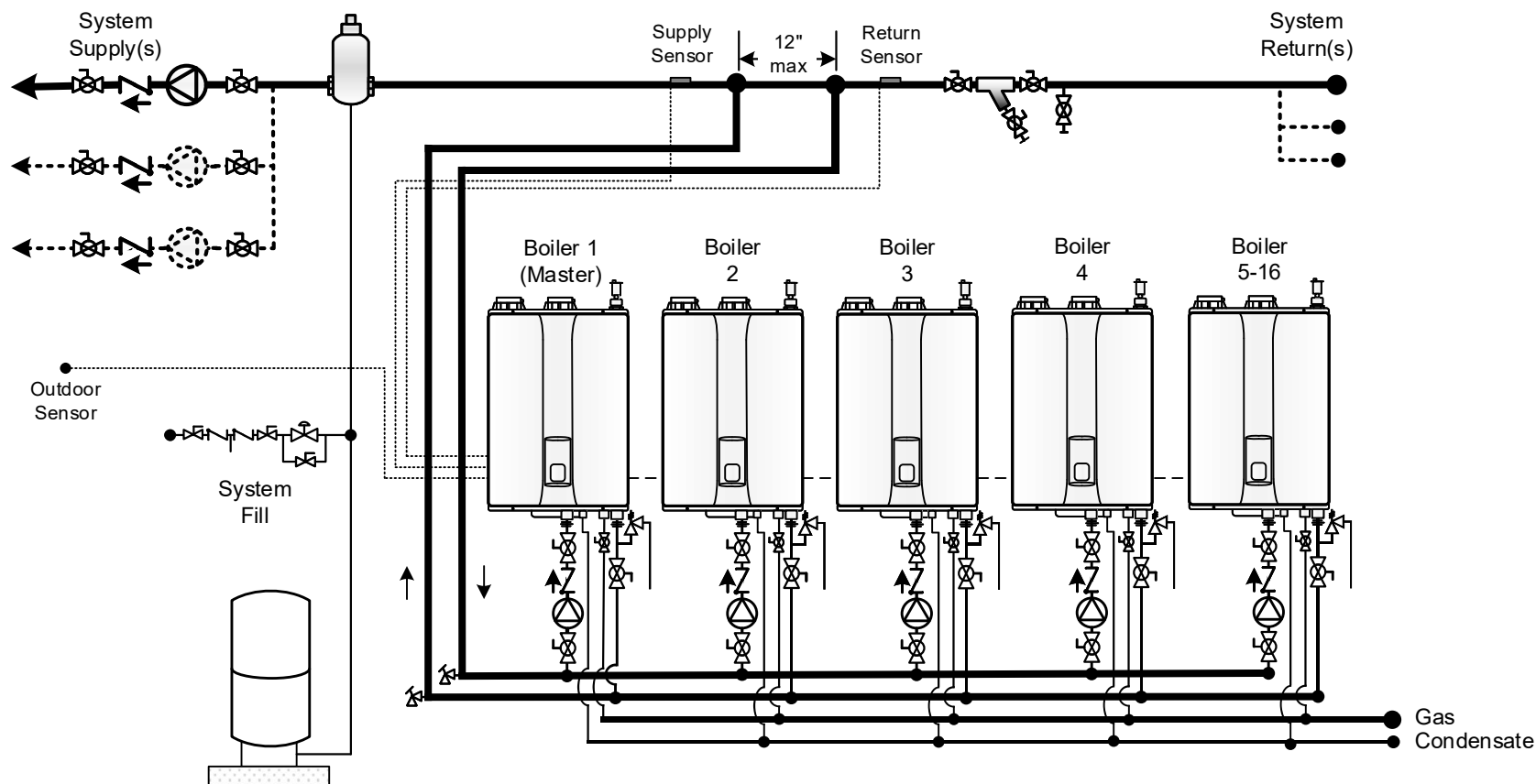
March 1, 2017



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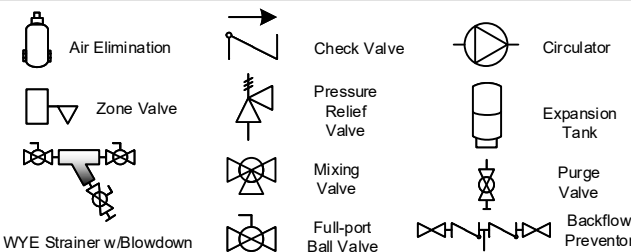


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NHB Series Condensing Boiler

Navien NHB-110/150
Five to Sixteen Multiple Boiler Application

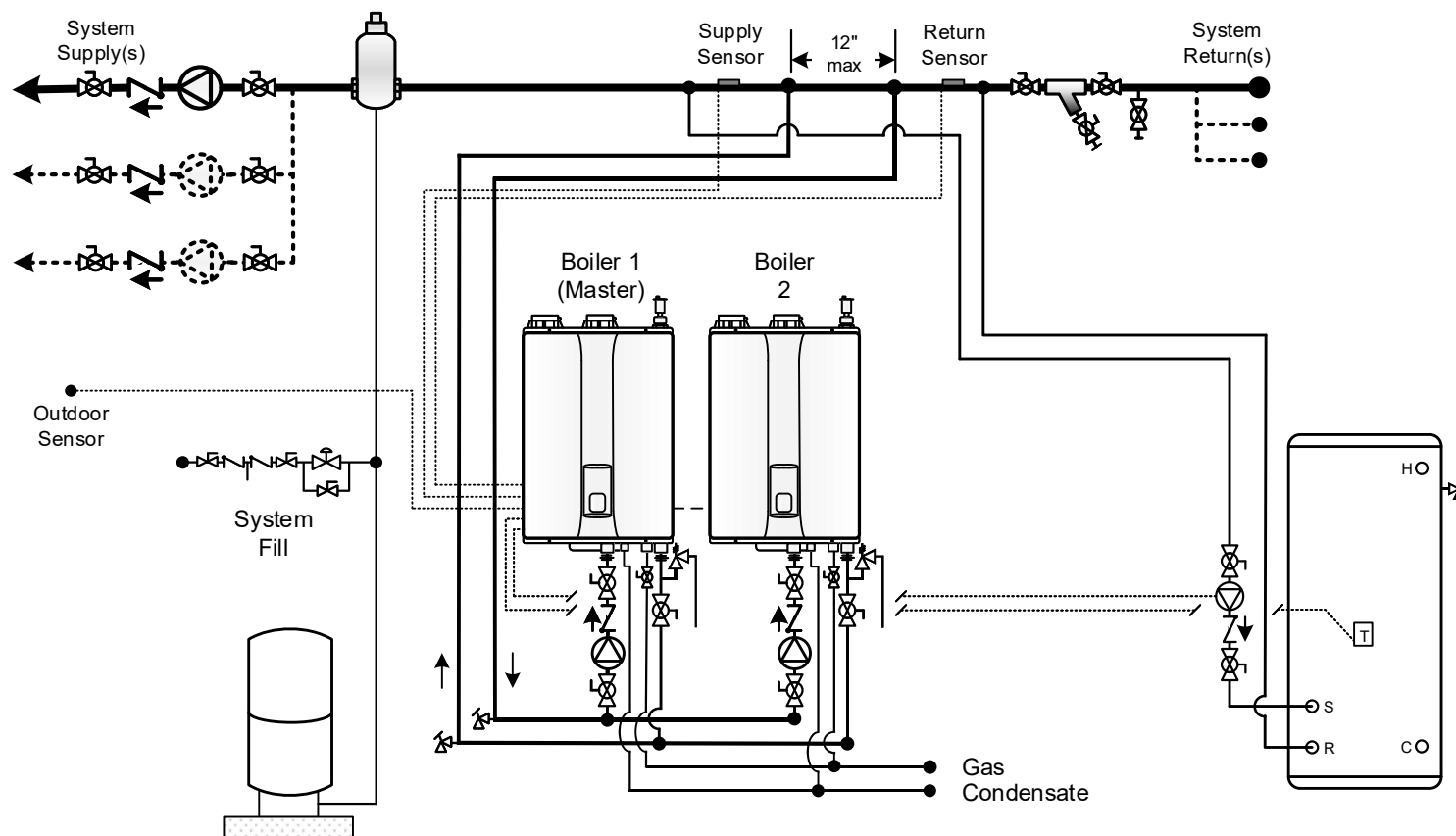
Drawn By: BF NHB-110-150-5+MULT-BF01 March 1, 2017



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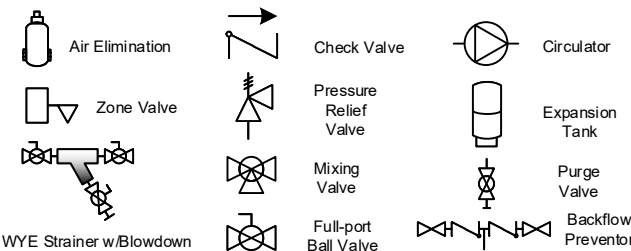
NHB Series Condensing Boiler

Navien NHB-110/150
Two Multiple Boiler Application
With One Indirect Water Heater

Drawn By: BF

NHB-110-150-2MULT-1IND-BF01

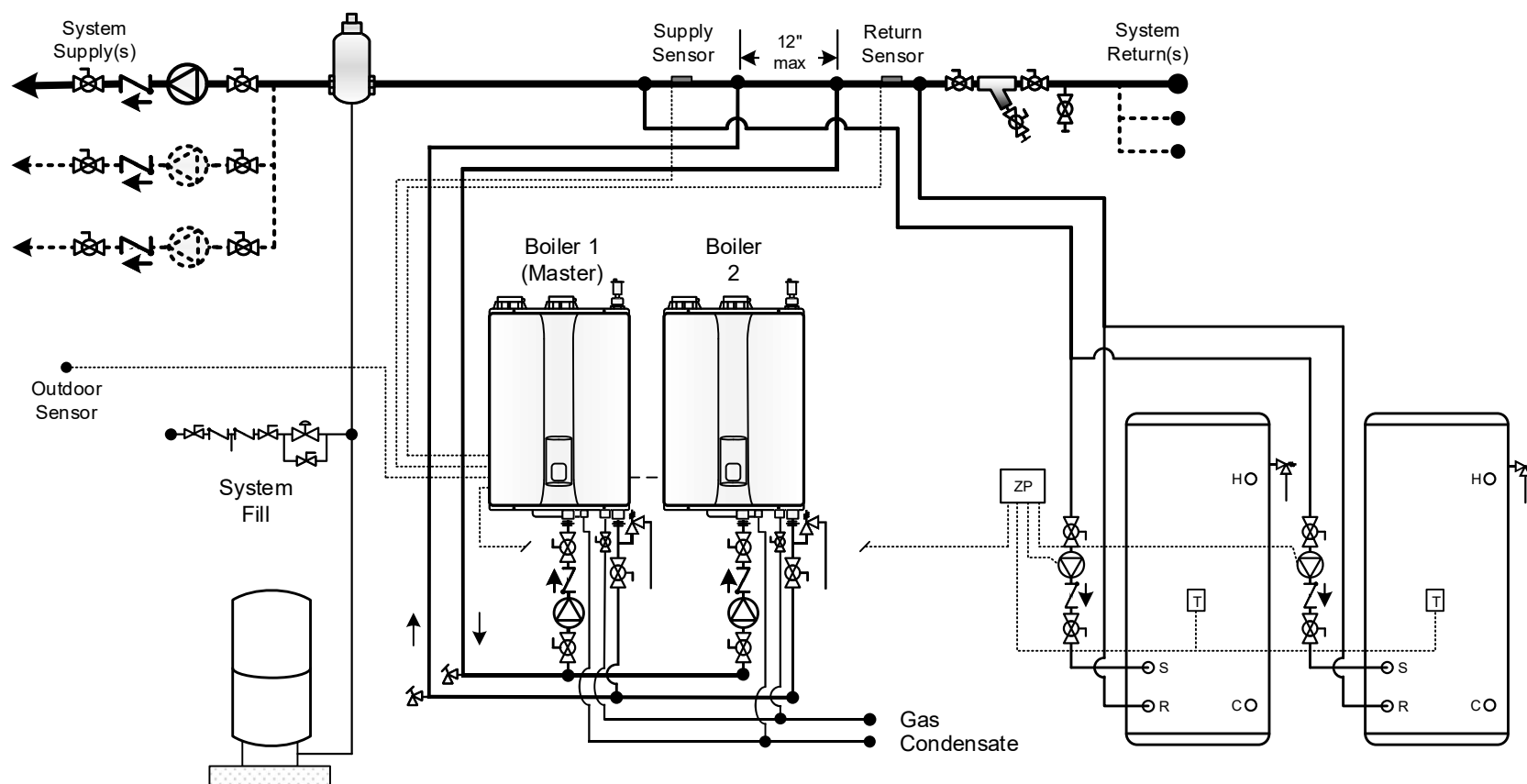
March 1, 2017



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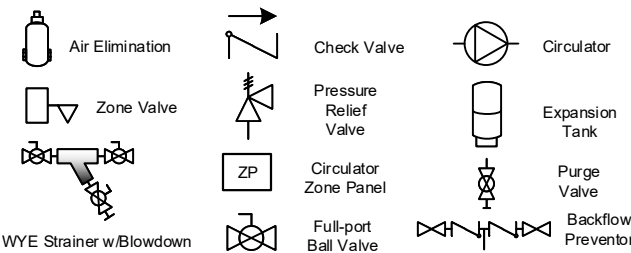
NHB Series Condensing Boiler

Navien NHB-110/150
Two Multiple Boiler Application
With Two Indirect Water Heaters

Drawn By: BF

NHB-110-150-2MULT-2IND-BF01

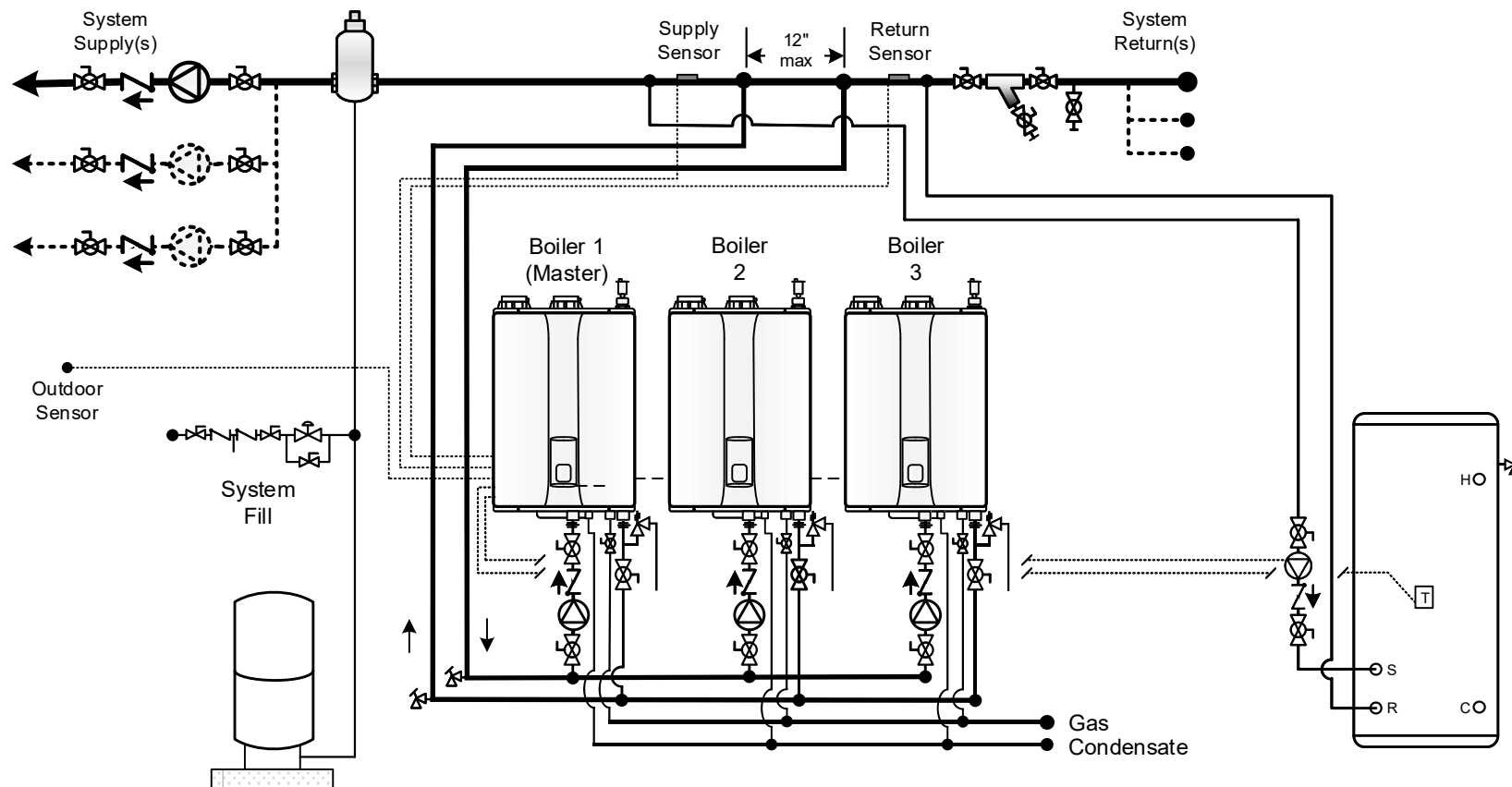
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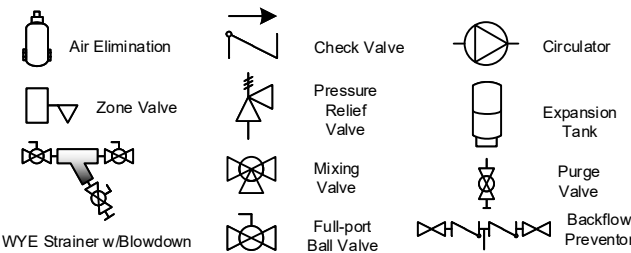
NHB Series Condensing Boiler

Navien NHB-110/150
Three Multiple Boiler Application
With One Indirect Water Heater

Drawn By: BF

NHB-110-150-3MULT-1IND-BF01

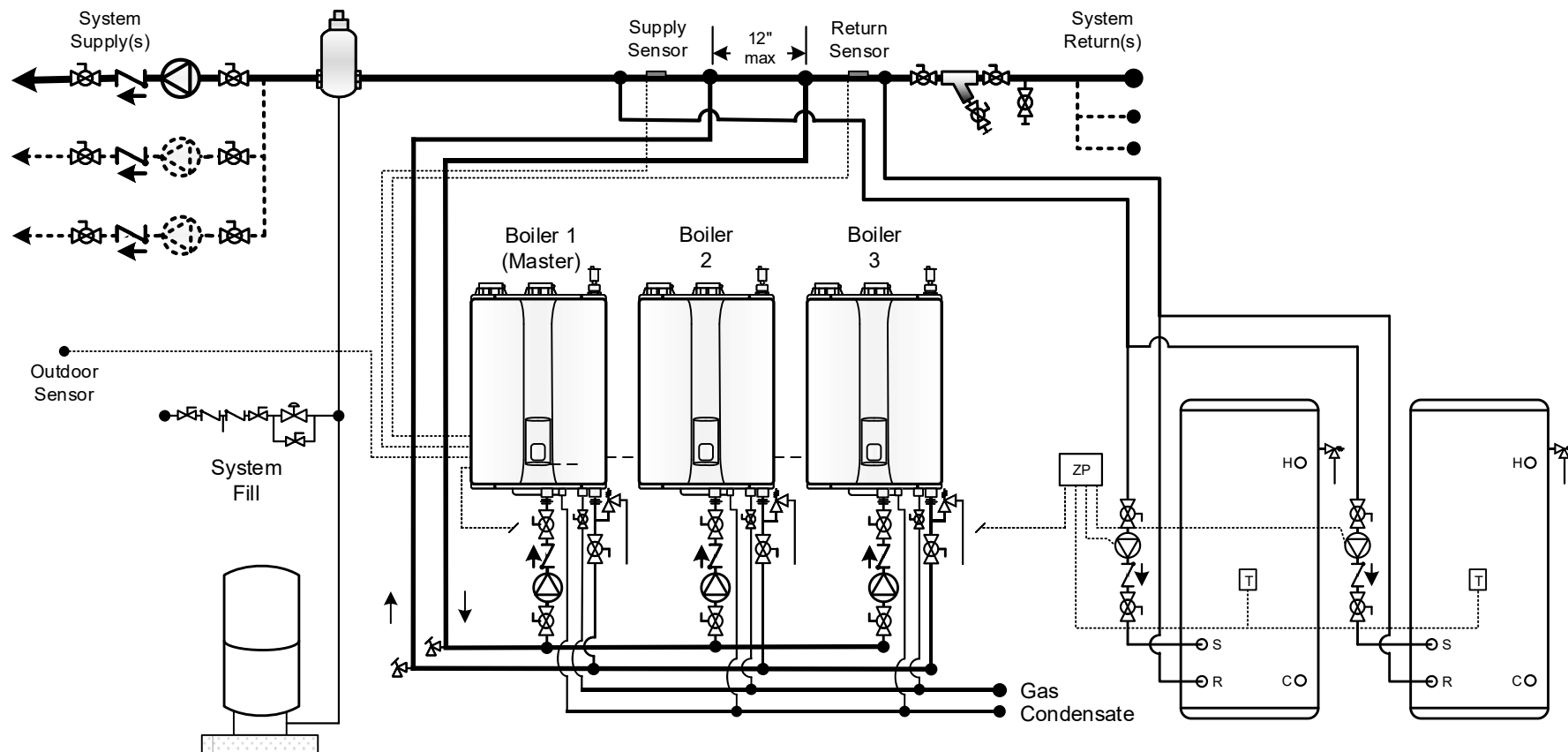
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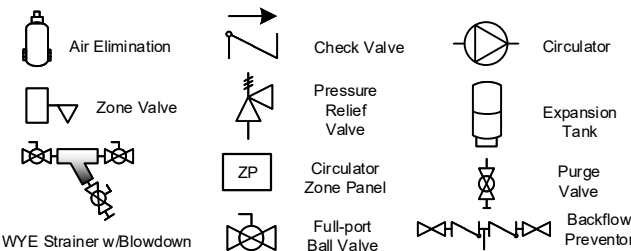
NHB Series Condensing Boiler

Navien NHB-110/150
Three Multiple Boiler Application
With Two Indirect Water Heaters

Drawn By: BF

NHB-110-150-3MULT-2IND-BF01

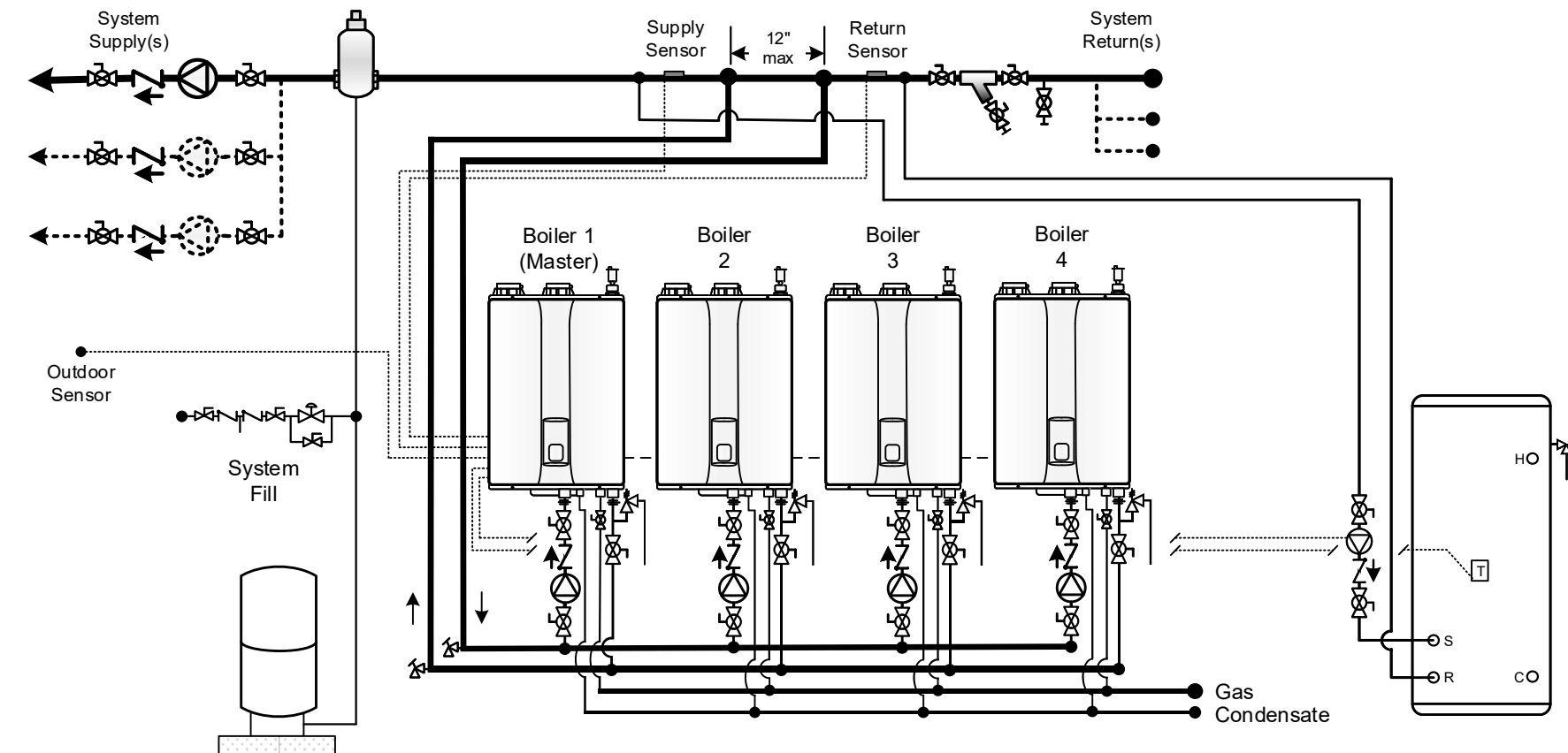
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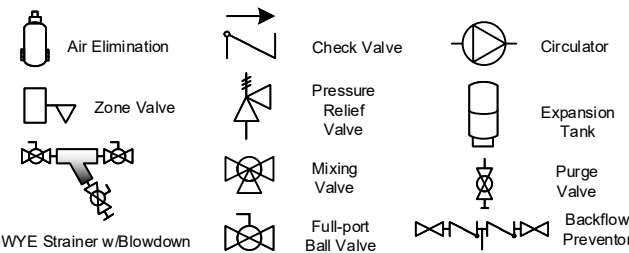
NHB Series Condensing Boiler

Navien NHB-110/150
Four Multiple Boiler Application
With One Indirect Water Heater

Drawn By: BF

NHB-110-150-4MULT-1IND-BF01

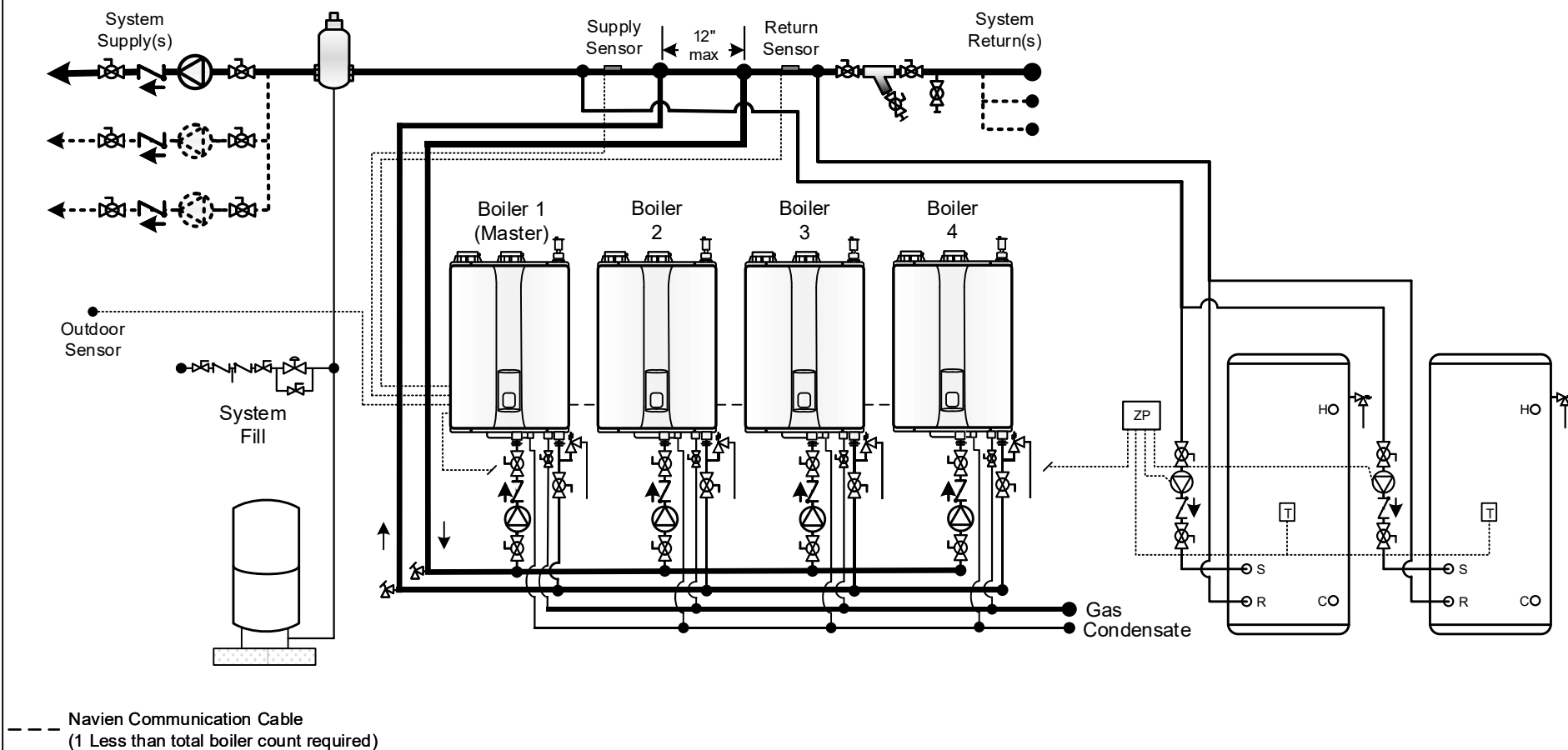
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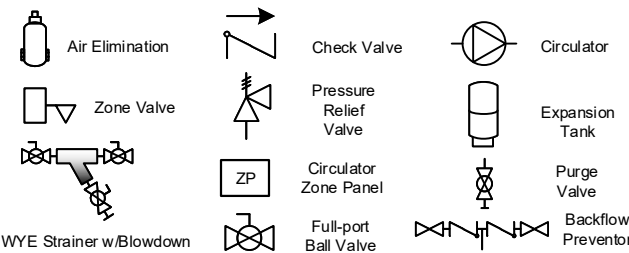
NHB Series Condensing Boiler

Navien NHB-110/150
Four Multiple Boiler Application
With Two Indirect Water Heaters

Drawn By: BF

NHB-110-150-4MULT-2IND-BF01

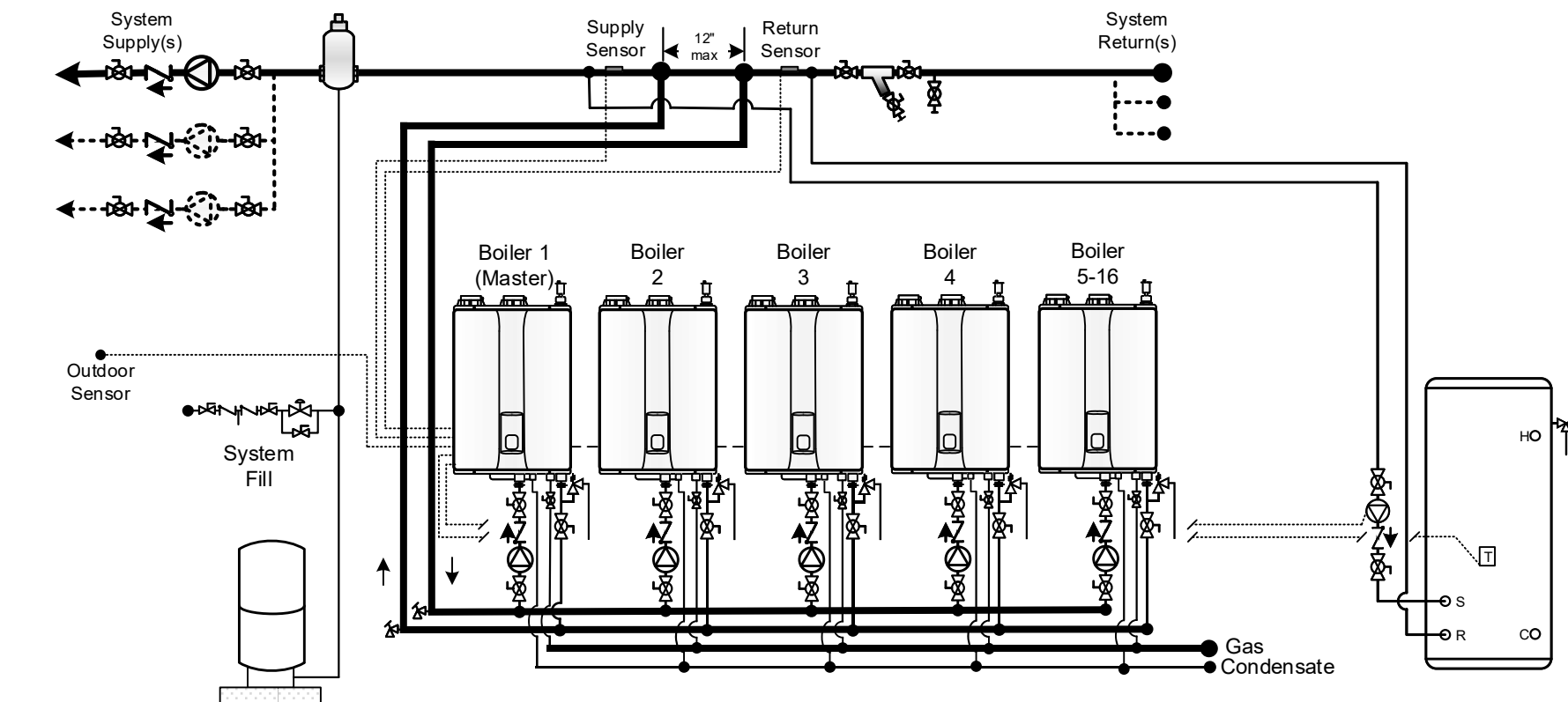
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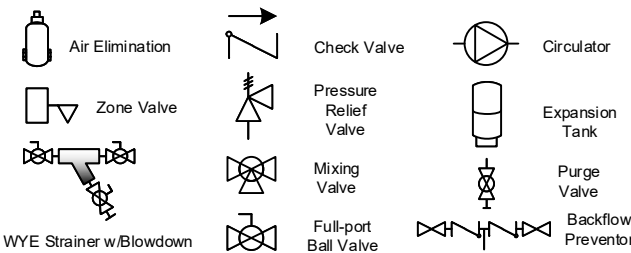
NHB Series Condensing Boiler

Navien NHB-110/150
Five to Sixteen Multiple Boiler Application
With One Indirect Water Heater

Drawn By: BF

NHB-110-150-5+MULT-1IND-BF01

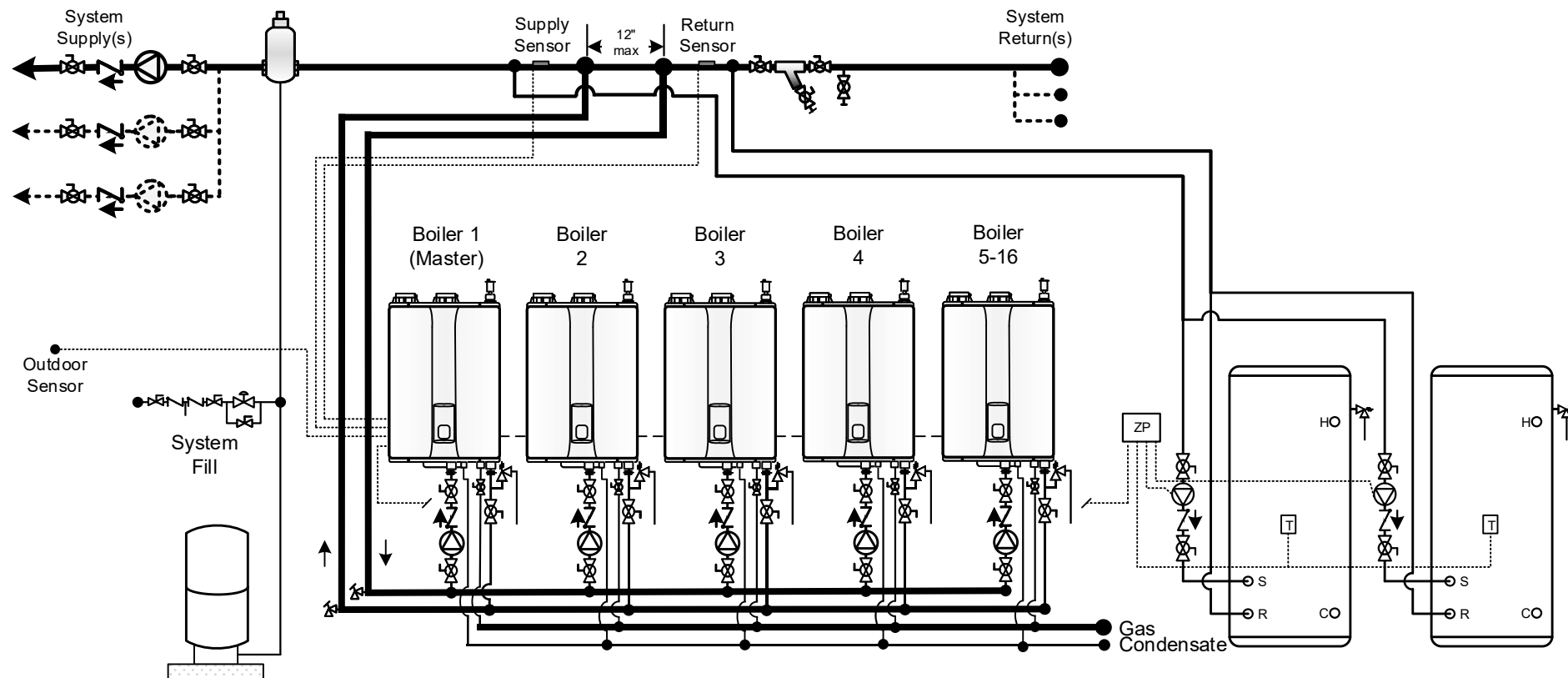
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--- Navien Communication Cable
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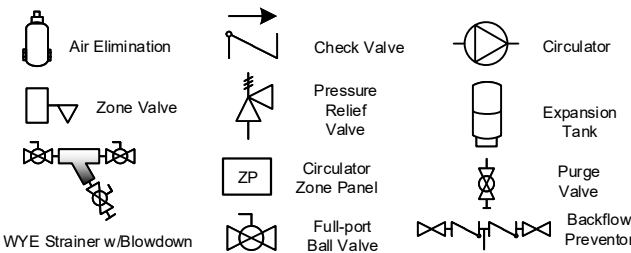
NHB Series Condensing Boiler

Navien NHB-110/150
Five to Sixteen Multiple Boiler Application
With Two Indirect Water Heaters

Drawn By: BF

NHB-110-150-5+MULT-2IND-BF01

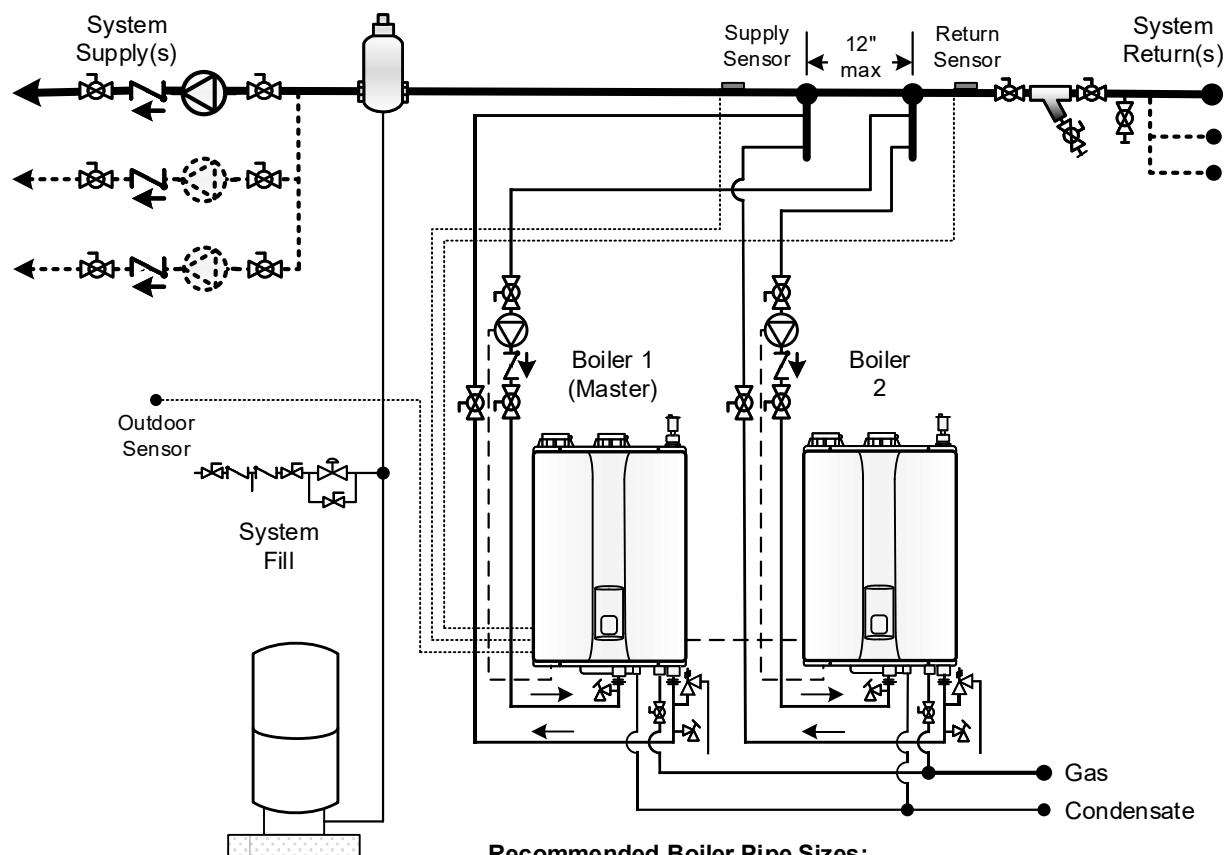
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Recommended Boiler Pipe Sizes:

NHB-110 - 1" Minimum (1" boiler connection)
 NHB-150 - 1 ¼" Minimum (1" boiler connection)

--- Navien Communication Cable
 (1 Less than total boiler count required)

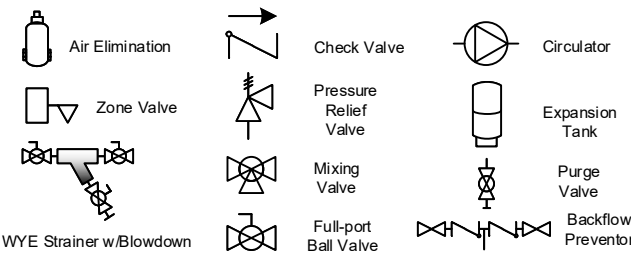
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NHB Series Condensing Boiler

Navien NHB-110/150
 Two Multiple Boiler Application

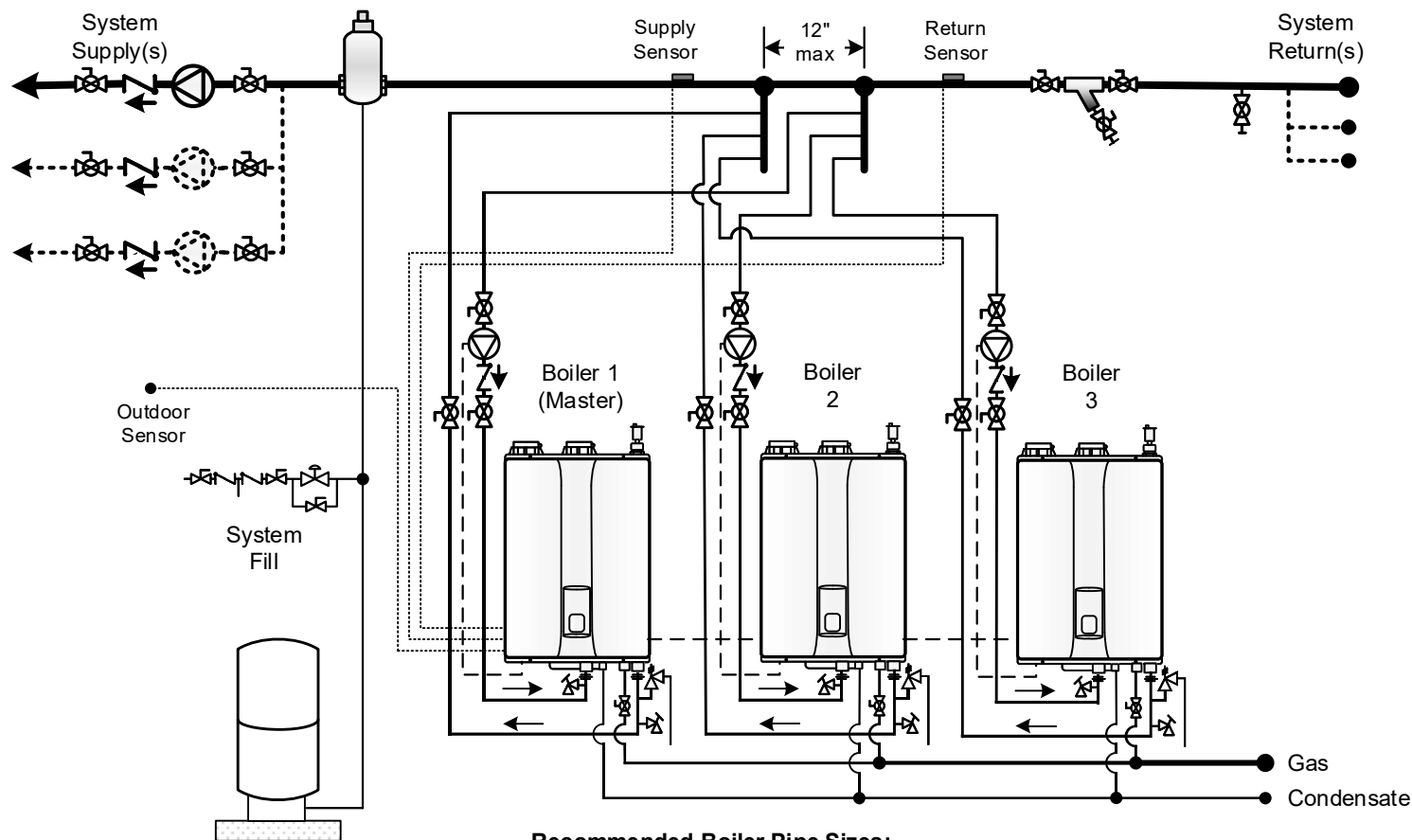
Drawn By: BF NHB-110-150-2MULT-BF01A March 1, 2017



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Recommended Boiler Pipe Sizes:

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--- Navien Communication Cable
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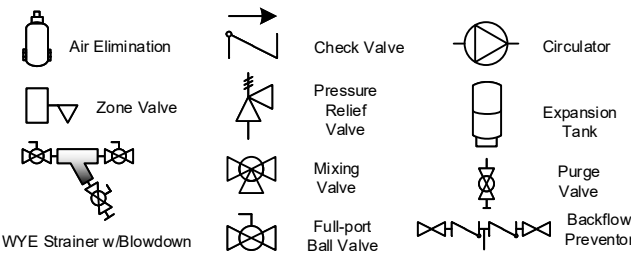
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NHB Series Condensing Boiler

Navien NHB-110/150
Three Multiple Boiler Application

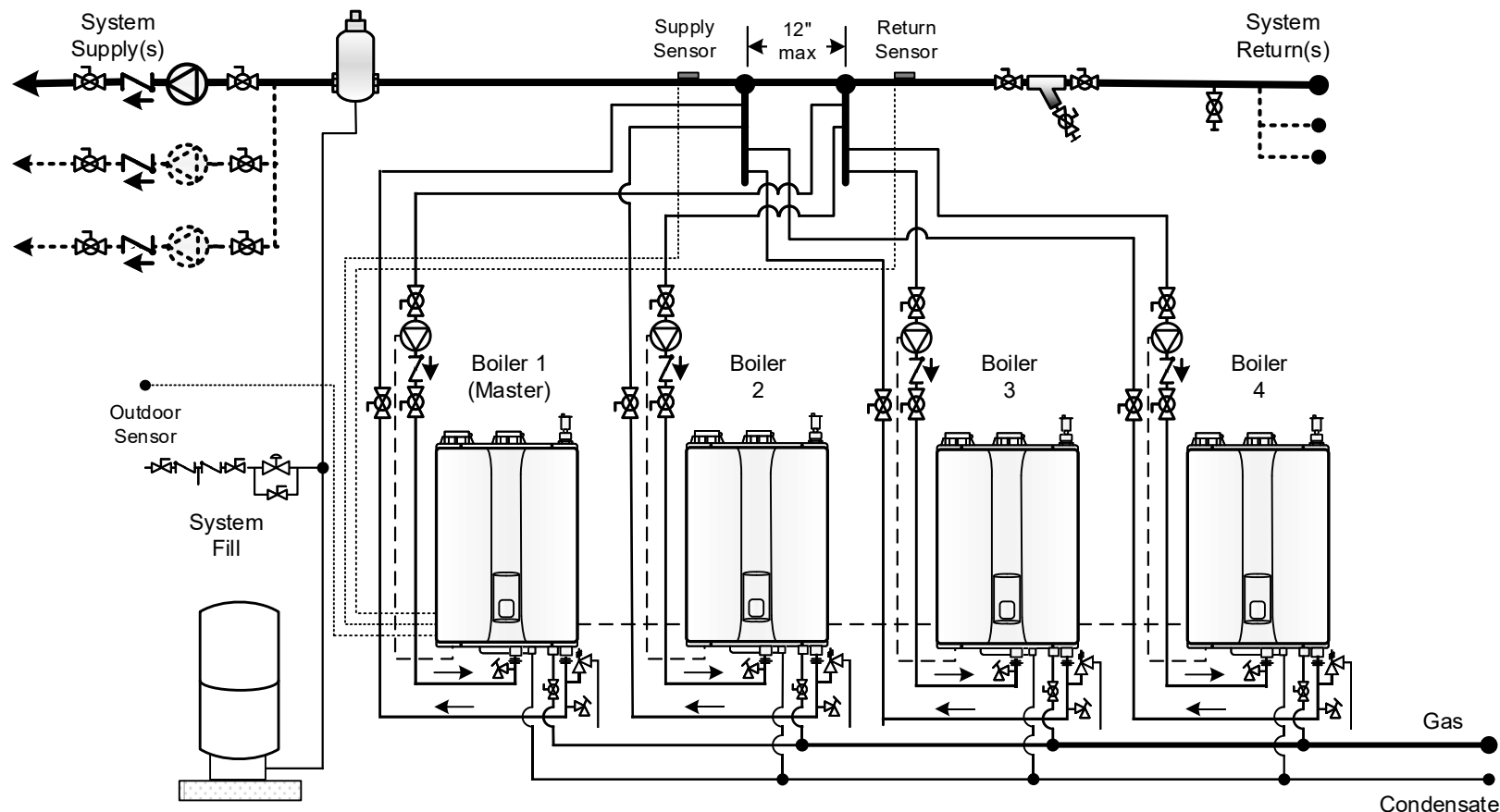
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Recommended Boiler Pipe Sizes:

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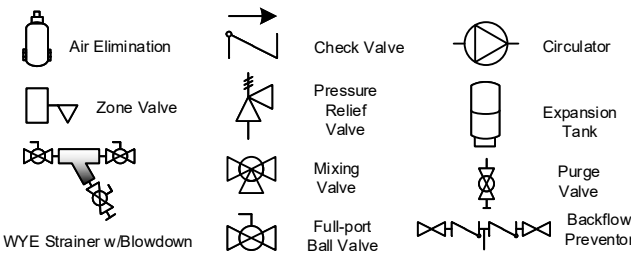
NHB Series Condensing Boiler

Navien NHB-110/150 Four Multiple Boiler Application

Drawn By: BF

NHB-110-150-4MULT-BF01A

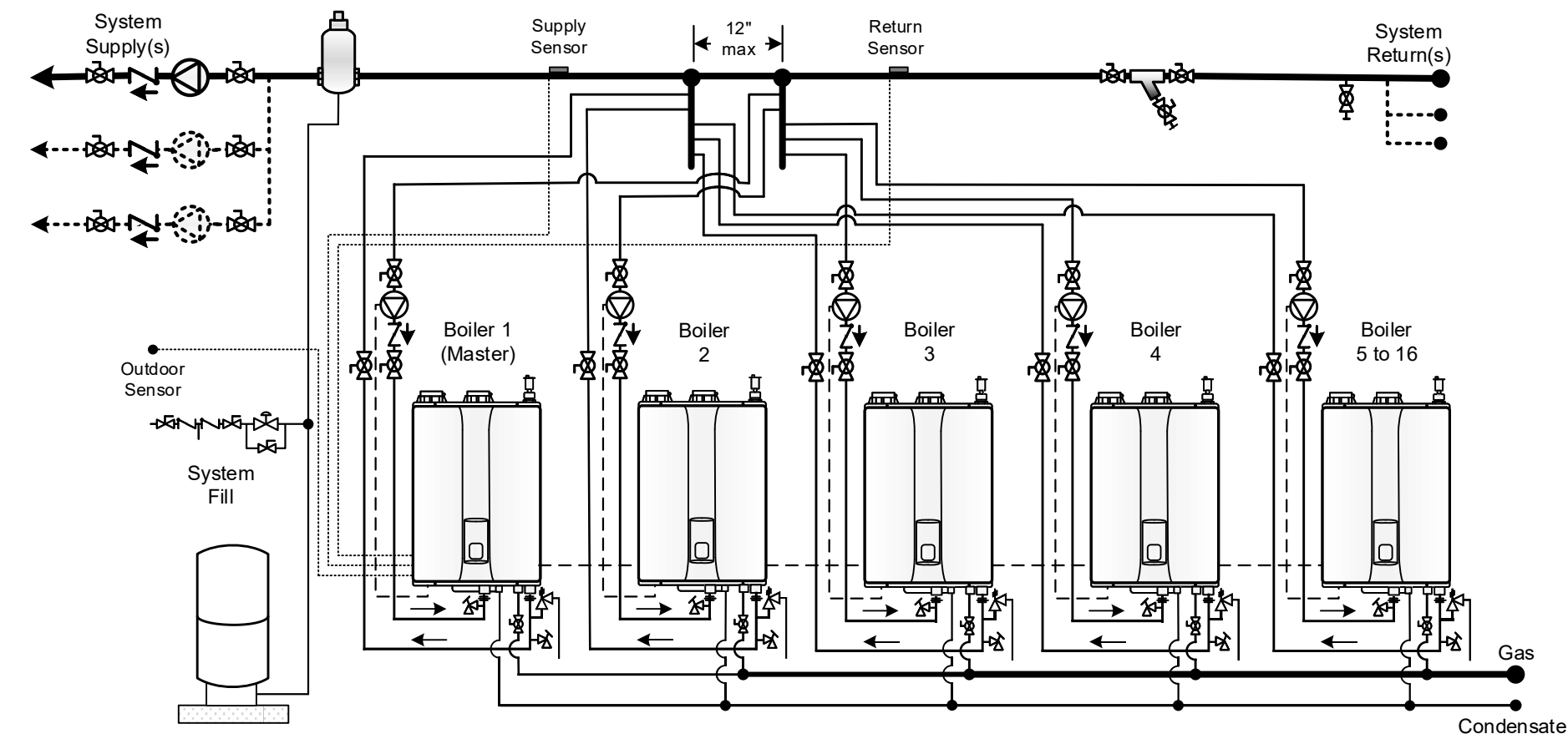
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NHB Series Condensing Boiler

Navien NHB-110/150
Five to Sixteen Multiple Boiler Application

Drawn By: BF NHB-110-150-5+MULT-BF01A March 1, 2017

