

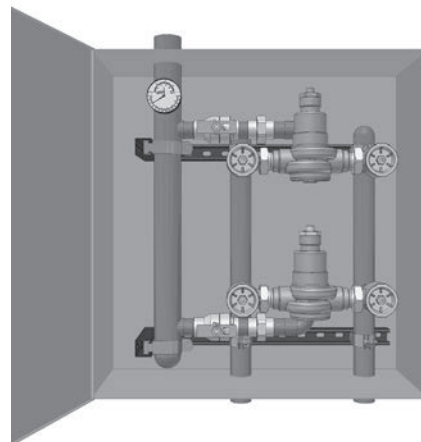
**HYDROGUARD® XP Series LFSH1430 2 Valve DV
Supply Fixture Recessed Cabinet**

Product Specification

LEAD FREE*

Features ■

- Features Lead Free* construction to comply with Lead Free* installation requirements.
- Paraffin-based advanced thermal actuation technology to sense and adjust outlet temperature
- Dirt and lime resistant poppet and seat design
- Virtual shutoff if supply pressure fails
- Vandal-resistant locking mechanism to secure temperature setting
- Factory tested as a complete unit
- Pressure/Temperature Gauge ball valves
- Stainless steel or white painted cabinet



Advanced Thermal Activation

Specifications ■

Connections See chart on reverse

Maximum Hot Water Supply Temperature . . . 200°F (93°C)

Minimum Hot Water Supply Temperature** .. 5°F (3°C) Above Set Point

Minimum Flow*** 0.5 gpm (1.9 lpm)

Maximum Operating Pressure 125psi (861 kPa)

Temperature Adjustment Range**** 90 – 160°F (32 – 71°C)

Hot Water Inlet Temperature Range 120 – 180°F (49 – 82°C)

Cold Water Inlet Temperature Range 40 – 80°F (4 – 27°C)

Listing/Compliance (Valves Only) ASSE 1017, CSA B125

* The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.

** With Equal Pressure

*** Minimum flow when Hi/Lo valve is installed at or near hot water source recirculating tempered water with a properly sized continuously operating recirculating pump.

**** Note: Low limit cannot be less than the cold water temperature. For best operation, hot water should be at least 5°F (3°C) above desired set point.

Capacity ■

| Flow Capacity at 50-50 Mixed Ratio | | | | | | | | |
|------------------------------------|------------------------|------|----------------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Model | Min. Flow to ASSE 1017 | Cv | Pressure Drop Across Valve | | | | | |
| | | | 5psi (34 kPa) | 10psi (69 kPa) | 20psi (138 kPa) | 30psi (207 kPa) | 45psi (310 kPa) | 60psi (414 kPa) |
| LFSH1432DV | 2 gpm | 27.4 | 61 gpm | 87 gpm | 123 gpm | 150 gpm | 184 gpm | 213 gpm |
| | 8 lpm | | 231 lpm | 329 lpm | 466 lpm | 568 lpm | 697 lpm | 806 lpm |
| LFSH1434DV | 2 gpm | 37.4 | 84 gpm | 118 gpm | 167 gpm | 205 gpm | 251 gpm | 290 gpm |
| | 8 lpm | | 318 lpm | 447 lpm | 632 lpm | 776 lpm | 950 lpm | 1098 lpm |

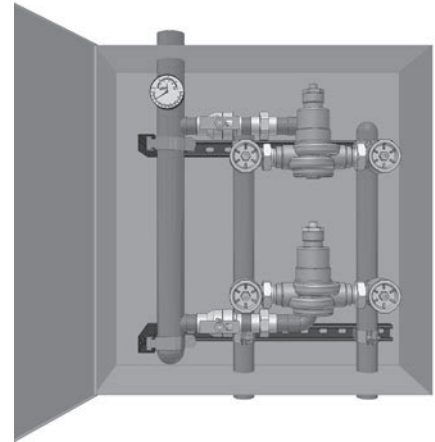
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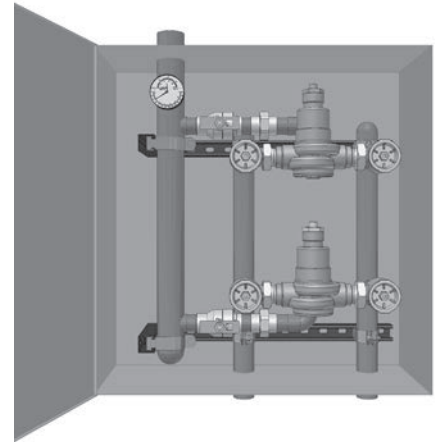
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Connections See chart on reverse

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** With Equal Pressure

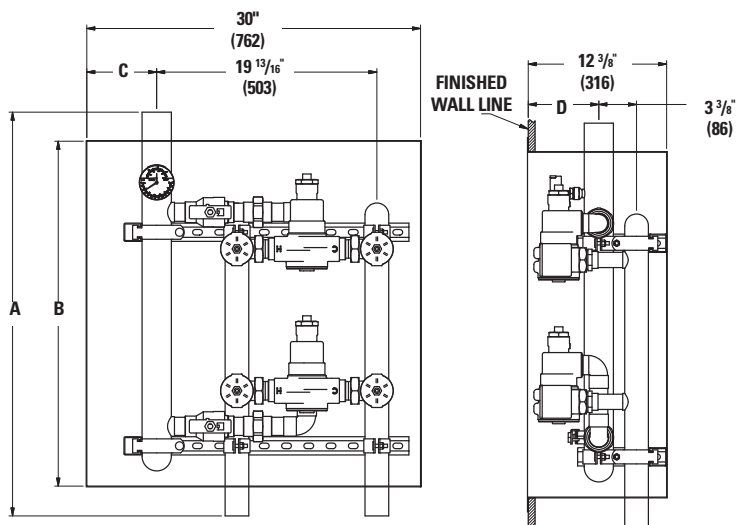
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**** Note: Low limit cannot be less than the cold water temperature. For best operation, hot water should be at least 5°F (3°C) above desired set point.

Capacity ■

| Flow Capacity at 50-50 Mixed Ratio | | | | | | | | |
|------------------------------------|------------------------|------|----------------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Model | Min. Flow to ASSE 1017 | Cv | Pressure Drop Across Valve | | | | | |
| | | | 5psi (34 kPa) | 10psi (69 kPa) | 20psi (138 kPa) | 30psi (207 kPa) | 45psi (310 kPa) | 60psi (414 kPa) |
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| | 8 lpm | | 318 lpm | 447 lpm | 632 lpm | 776 lpm | 950 lpm | 1098 lpm |

Dimensions ■



| Valve | Inlets | Outlet | A | B | C | D |
|------------|---------------|---------------|-----------------|-------------|----------------|----------------|
| LFSH1432DV | 1-1/2 (40) | 2 (50) | 35-1/4 (685) | 30 (762) | 5-1/8 (130) | 6-5/8 (168) |
| LFSH1434DV | 2 (50) | 2-1/2 (65) | 36-3/8 (924) | 31 (787) | 6-1/4 (159) | 6-1/2 (165) |

Note:
Dimensions are shown ±1/2"
Dimensions in parentheses are in mm

Ordering Information ■

| Valve | Inlets | Outlet | Order Code |
|-------------------|-------------|-------------|------------|
| LFSH1432/LFSH1434 | 1-1/2" (40) | 2" (50) | LFSH1432DV |
| LFSH1434/LFSH1434 | 2" (50) | 2-1/2" (65) | LFSH1434DV |

Finish

Rough Bronze, Copper

Piping

Bottom/Top

Cabinets

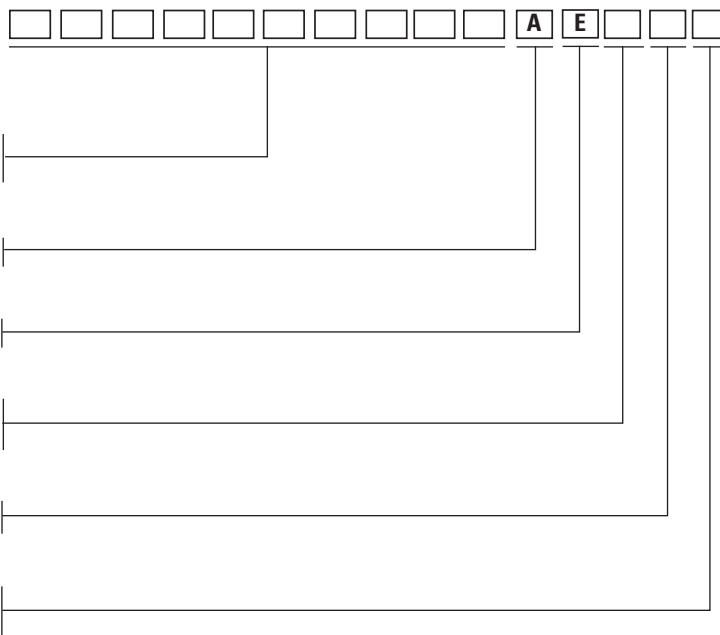
Stainless, Recessed
Painted, Recessed

Alarm

None

View Port

None
Window



Recirculation Piping Diagram ■

Please see Piping Diagram Section of this catalog.

Typical Specification ■

DV water temperature control system shall be factory assembled and tested and include a stainless steel or painted steel cabinet. It shall include two thermostatic mixing valves capable of maintaining water temperature to 5°F (3°C) above set point. DV shall include two HydroGuard® XP LFSH1430 Series Master-Tempering Valve with advanced, paraffin-based actuation technology. The valves shall be constructed using Lead Free* brass. Lead Free* brass valves shall comply with state codes and standards, where applicable, requiring reduced lead content. DV shall also include copper piping, ball valve(s) and temperature/pressure gauge for diagnostics. The tempering valve shall have union checkstops, an outlet temperature range of 90 – 160°F (32 - 71°C) (with lockable means), and a single seat design for positive shutoff. Valve shall be ASSE 1017 listed and CSA certified. Minimum flows to ASSE 1017 shall be 2.0 gpm (8 lpm) for LFSH1432 DV and LFSH1434 DV.

Valve shall be a Powers' model _____. All alternatives must have written approval prior to bidding.

ENGINEERING APPROVAL

Project: _____

Contractor: _____

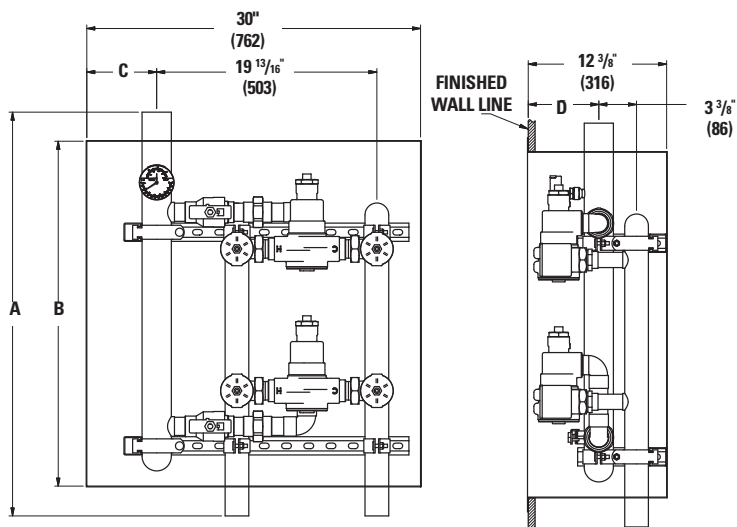
Architect/Engineer: _____

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Dimensions ■



| Valve | Inlets | Outlet | A | B | C | D |
|------------|---------------|---------------|-----------------|-------------|----------------|----------------|
| LFSH1432DV | 1-1/2 (40) | 2 (50) | 35-1/4 (685) | 30 (762) | 5-1/8 (130) | 6-5/8 (168) |
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Note:
Dimensions are shown ±1/2"
Dimensions in parentheses are in mm

Ordering Information ■

| Valve | Inlets | Outlet | Order Code |
|-------------------|-------------|-------------|------------|
| LFSH1432/LFSH1434 | 1-1/2" (40) | 2" (50) | LFSH1432DV |
| LFSH1434/LFSH1434 | 2" (50) | 2-1/2" (65) | LFSH1434DV |

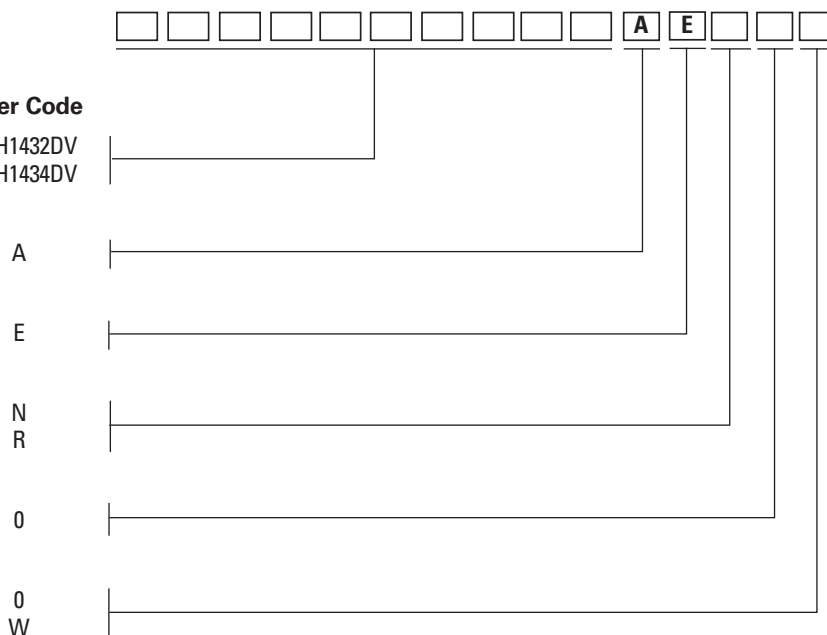
Finish
Rough Bronze, Copper

Piping
Bottom/Top

Cabinets
Stainless, Recessed
Painted, Recessed

Alarm
None

View Port
None
Window



Recirculation Piping Diagram ■

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| ENGINEERING APPROVAL | |
|----------------------|-------|
| Project: | _____ |
| Contractor: | _____ |
| Architect/Engineer: | _____ |

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**ISO 9001-2000
CERTIFIED**

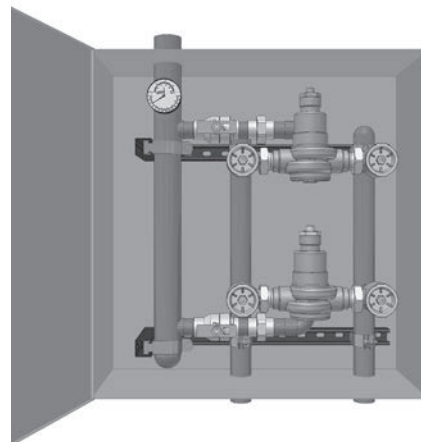
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- Virtual shutoff if supply pressure fails
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- Factory tested as a complete unit
- Pressure/Temperature Gauge ball valves
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Advanced Thermal Activation

Specifications ■

Connections See chart on reverse

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Minimum Flow*** 0.5 gpm (1.9 lpm)

Maximum Operating Pressure 125psi (861 kPa)

Temperature Adjustment Range**** 90 – 160°F (32 – 71°C)

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Cold Water Inlet Temperature Range 40 – 80°F (4 – 27°C)

Listing/Compliance (Valves Only) ASSE 1017, CSA B125

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** With Equal Pressure

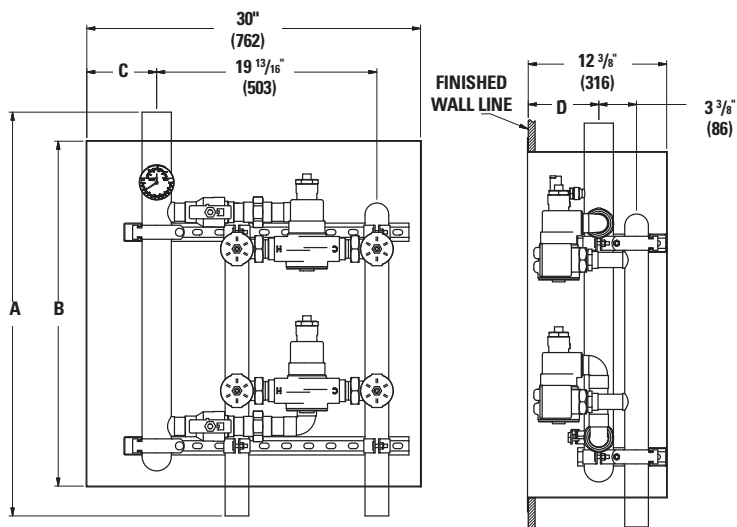
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Capacity ■

| Flow Capacity at 50-50 Mixed Ratio | | | | | | | | |
|------------------------------------|------------------------|------|----------------------------|----------------|-----------------|-----------------|-----------------|-----------------|
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| | | | 5psi (34 kPa) | 10psi (69 kPa) | 20psi (138 kPa) | 30psi (207 kPa) | 45psi (310 kPa) | 60psi (414 kPa) |
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| | 8 lpm | | 231 lpm | 329 lpm | 466 lpm | 568 lpm | 697 lpm | 806 lpm |
| LFSH1434DV | 2 gpm | 37.4 | 84 gpm | 118 gpm | 167 gpm | 205 gpm | 251 gpm | 290 gpm |
| | 8 lpm | | 318 lpm | 447 lpm | 632 lpm | 776 lpm | 950 lpm | 1098 lpm |

Dimensions ■



| Valve | Inlets | Outlet | A | B | C | D |
|------------|------------|------------|--------------|----------|-------------|-------------|
| LFSH1432DV | 1-1/2 (40) | 2 (50) | 35-1/4 (685) | 30 (762) | 5-1/8 (130) | 6-5/8 (168) |
| LFSH1434DV | 2 (50) | 2-1/2 (65) | 36-3/8 (924) | 31 (787) | 6-1/4 (159) | 6-1/2 (165) |

Note:
 Dimensions are shown ±1/2"
 Dimensions in parentheses are in mm

Ordering Information ■

| Valve | Inlets | Outlet | Order Code |
|-------------------|-------------|-------------|------------|
| LFSH1432/LFSH1434 | 1-1/2" (40) | 2" (50) | LFSH1432DV |
| LFSH1434/LFSH1434 | 2" (50) | 2-1/2" (65) | LFSH1434DV |

Finish

Rough Bronze, Copper

Piping

Bottom/Top

Cabinets

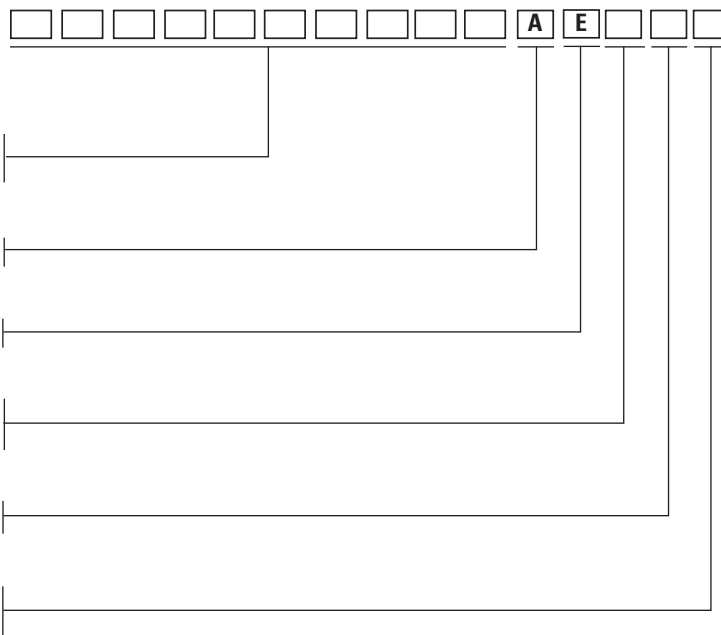
Stainless, Recessed
 Painted, Recessed

Alarm

None

View Port

None
 Window



Recirculation Piping Diagram ■

Please see Piping Diagram Section of this catalog.

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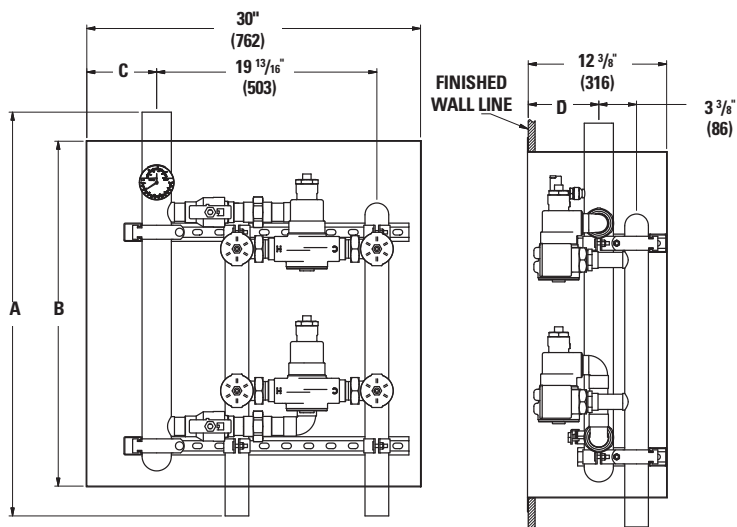
| ENGINEERING APPROVAL | |
|----------------------|-------|
| Project: | _____ |
| Contractor: | _____ |
| Architect/Engineer: | _____ |



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Dimensions



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|------------|------------|------------|--------------|----------|-------------|-------------|
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| LFSH1434/LFSH1434 | 2" (50) | 2-1/2" (65) | LFSH1434DV |

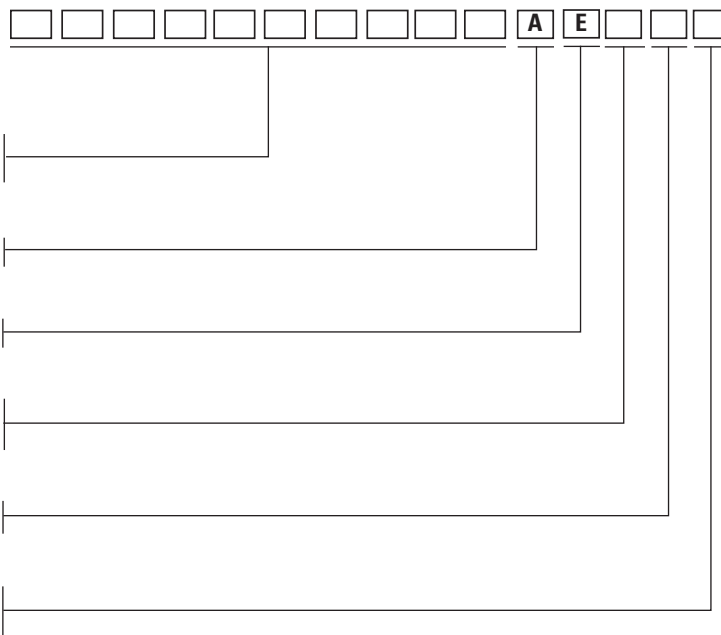
Finish
 Rough Bronze, Copper

Piping
 Bottom/Top

Cabinets
 Stainless, Recessed
 Painted, Recessed

Alarm
 None

View Port
 None
 Window



Recirculation Piping Diagram

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