Piping Symbol Legend

circulator (w/ isolation flanges)

circulator w/ integral flow check)

gate valve

globe valve

ball valve

swing-check valve

flow-check valve

spring-loaded check valve

hose bib / boiler drain

thermostatic radiator valve TRV (straight)

thermostatic radiator valve TRV (angle)

circuit setter

manual 3-way valve

zone valve

air separator

diaphragm-type expansion tank

pressure reducing valve

diff. pressure bypass

anti-scald rated mixing valve

pressure gauge

4-way motorized mixing valve

3-way motorized mixing valve

pressure relief valve

backflow preventer

float -type air vent

temperature / pressure gauge

union

heat exchanger

vacuum breaker

Super Stor indirect DHW tank

Munchkin heater

radiant manifold
Munchkin Vision 1 & Vision 2 control systems

4 individual space heating temperatures

Priority domestic water heating

NOTES:

1. This drawing is meant to show system piping concept only. Installer is responsible for all equipment & detailing required by local codes.
2. All closely spaced tees shall be within 4 pipe diameter center to center spacing.
3. A minimum of 6 pipe diameters of straight pipe shall be installed upstream and downstream of all closely spaced tees.
4. The minimum pipe size for connecting a Super Stor water heater is 1 inch.
5. The minimum pipe size for connecting a Munchkin boiler shall be no smaller than the units connection size on supply & return piping.
6. Some circulators are shown with isolation flanges and integral flow check valves.
   The alternative is standard flanges with full port ball valves and a separate flow check valve.
7. The anti-scald mixing valve is recommended if the DHW temperature is set above the factory setting of 119°F.
8. Install a minimum of 12 diameters of straight pipe upstream of all circulators.
9. A purging valve may be used in lieu of the ball valve / hose bib combination shown.
10. Size header piping so flow velocity does not exceed 4 ft/second under design load flow conditions
11. DHW may be controlled as a priority load by setting dip switch #4 on the Vision 2 controller to the "on" position.
12. DHW temperature may be sensed by either a mechanical aquastat or thermistor sensor (supplied).
13. Note: The 3-way mixing valve shown in this detail reflects the Honeywell application and flow direction. See the detail in the Piping Symbol Legend for the flow direction for the Belimo valve.
Munchkin Vision 2 control system
Two individual space heating temperatures
Domestic water heating
Sub-zoning using zone valves

Drawing V2-2

Notes:
1. This drawing is meant to show system piping concept only. Installer is responsible for all equipment & detailing required by local codes.
2. All closely spaced tees shall be within 4 pipe diameter center to center spacing.
3. A minimum of 6 pipe diameters of straight pipe shall be installed upstream and downstream of all closely spaced tees.
4. The minimum pipe size for connecting a Super Stor water heater is 1 inch.
5. The minimum pipe size for connecting a Munchkin boiler shall be no smaller than the units connection size on supply & return piping.
6. Some circulators are shown with isolation flanges and integral flow check valves. The alternative is standard flanges with full port ball valves and a separate flow check valve.
7. The anti-scald mixing valve is recommended if the DHW temperature is set above the factory setting of 119°F.
8. Install a minimum of 12 diameters of straight pipe upstream of all circulators.
9. A purging valve may be used in lieu of the ball valve / hose bib combination shown.
10. Size header piping so flow velocity does not exceed 4 ft/second under design load flow conditions.
11. DHW may be controlled as a priority load by setting dip switch #4 on the Vision 2 controller to the "on" position.
12. DHW temperature may be sensed by either a mechanical aquastat or thermistor sensor (supplied).
13. Sub-zoning is accomplished by using zone circulators and multi-zone relay centers.
14. The Vision 2 controller can operate up to 4 mixing valves.
15. Note: The 3-way mixing valve shown in this detail reflects the Honeywell application and flow direction. See the detail in the Piping Symbol Legend for the flow direction for the Belimo valve.
Munchkin Vision 2 control system
Two individual space heating temperatures
Domestic water heating
Sub-zoning using zone circulators

NOTES:
1. This drawing is meant to show system piping concept only. Installer is responsible for all equipment & detailing required by local codes.
2. All closely spaced tees shall be within 4 pipe diameter center to center spacing.
3. A minimum of 6 pipe diameters of straight pipe shall be installed upstream and downstream of all closely spaced tees.
4. The minimum pipe size for connecting a Super Stor water heater is 1 inch.
5. The minimum pipe size for connecting a Munchkin boiler shall be no smaller than the units connection size on supply & return piping.
6. Some circulators are shown with isolation flanges and integral flow check valves. The alternative is standard flanges with full port ball valves and a separate flow check valve.
7. The anti-scald mixing valve is recommended if the DHW temperature is set above the factory setting of 119˚F.
8. Install a minimum of 12 diameters of straight pipe upstream of all circulators.
9. A purging valve may be used in lieu of the ball valve / hose bib combination shown.
10. Size header piping so flow velocity does not exceed 4 ft/second under design load flow conditions.
11. DHW may be controlled as a priority load by setting dip switch #4 on the Vision 2 controller to the "on" position.
12. DHW temperature may be sensed by either a mechanical aquastat or thermistor sensor (supplied).
13. Sub-zoning is accomplished by using zone circulators and multi-zone relay centers.
14. The Vision 2 controller can operate up to 4 mixing valves.
15. Note: The 3-way mixing valve shown in this detail reflects the Honeywell application and flow direction. See the detail in the Piping Symbol Legend for the flow direction for the Belimo valve.
NOTES:
1. This drawing is meant to show system piping concept only. Installer is responsible for all equipment & detailing required by local codes.
2. All closely spaced tees shall be within 4 pipe diameter center to center spacing.
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6. Some circulators are shown with isolation flanges and integral flow check valves. The alternative is standard flanges with full port ball valves and a separate flow check valve.
7. The anti-scald mixing valve is recommended if the DHW temperature is set above the factory setting of 119˚F.
8. Install a minimum of 12 diameters of straight pipe upstream of all circulators.
9. A purging valve may be used in lieu of the ball valve / hose bib combination shown.
10. Size header piping so flow velocity does not exceed 4 ft/second under design load flow conditions.
11. DHW may be controlled as a priority load by setting dip switch #4 on the Vision 2 controller to the “on” position.
12. DHW temperature may be sensed by either a mechanical aquastat or thermistor sensor (supplied).
13. Sub-zoning is accomplished by using zone circulators and multi-zone relay centers.
14. Vision 2 controller can operate up to 4 mixing valves.
15. Vision 3 controller can operate up to 8 Munchkin boilers.
16. Note: The 3-way mixing valve shown in this detail reflects the Honeywell application and flow direction. See the detail in the Piping Symbol Legend for the flow direction for the Belimo valve.