

VISION²

The first truly integrated mixed zone control system that communicates directly to the Munchkin Boiler.

Vision 2 is an advanced zone mixing control that is easy to install and operate. Only factory trained contractors are allowed to install Vision 2.

SYSTEM MONITORING

- ***Software is available to monitor system history, fault history, and parameters of up to four individual mixed zones***
- ***Equipped with LED Lights that show an individual display of each zone operation.***
- ***The zone sensor provides a constant temperature feedback to the Vision 2 board. This assures a very controlled delivery to each mixed zone.***

SYSTEM FEATURES

- ***The Vision 2 can control up to four mixed zones***
- ***The Vision 2 can be connected to a building management system that supplies a 0-10 volt signal that controls the operational set point of the connected mixed zones***
- ***The Vision 2 can be connected to an outdoor sensor to provide an outdoor reset curve***
- ***Indirect priority function***
- ***Warm weather shutdown***
- ***Can be integrated to the Vision 3 panel to work off of the Munchkin multiple management Vision 3 control***
- ***Post purge circulator function***
- ***The Vision 2 display provides system monitoring***

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HOW THE VISION 2 WORKS

The Vision 2 control uses a two wire bus communication system to control up to 4 independent mixed zones and controls the operation of the connected Munchkin Boilers. The Vision 2 control will regulate the operation of each connected three-way mixing valve to assure you that the desired supply temperature is achieved. Each three way mixing valve will adjust the flow from the primary loop and return water from the zone in order to achieve the desired temperature output to the zone. The Vision 2 panel will then communicate with the Munchkin Boiler to regulate its output and temperature set point in order to satisfy the needs of the independent zones. Each zone is equipped with a highly accurate strap-on supply temperature sensor (spring loaded for better surface connection to the pipe) to assure the most accurate temperature measurement. The supply temperature sensor is installed on the mixed water outlet connection from the three mixing valves and wired back to the Vision 2 panel. The supply temperature sensor controls the modulation of the mixing valve and the boiler supply temperature to assure an accurate temperature response to the zone. Each individual mixed zone can supply additional traditionally piped zones that all require the same mixed temperature.

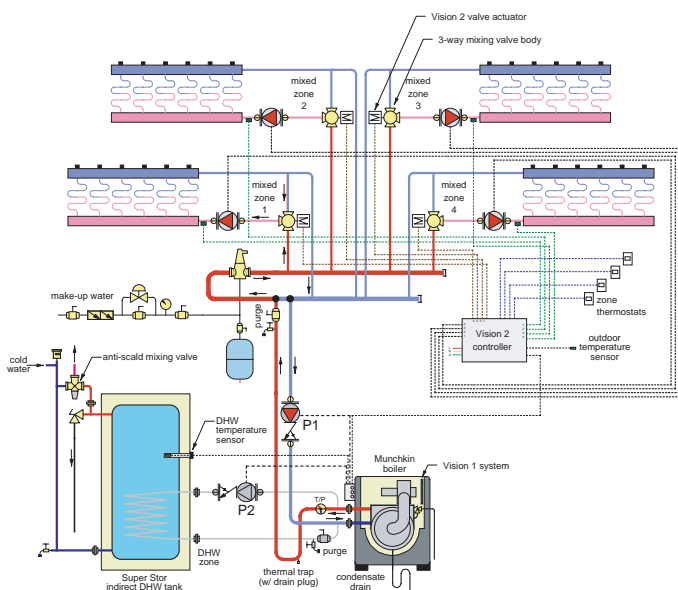
Individual mixed zones can be controlled through the use of a thermostat, outdoor sensor, 0-10 volt input from a building management system. If an outdoor sensor is used, each independent zone can be programmed with a personalized outdoor reset curve.

SYSTEM OPERATION

The Vision 2 display will allow the user to program reset curves for the individual zones and monitor the system operation. Pressing in the S3 key the display will allow the user to change the individual set points for each mixed zone and temperature measurement from F to C. Vision 2 allows the user to control a zone temperature through either an outdoor reset, 0-10 volt input or a thermostat. Once the Vision 2 receives a signal for a call for heat, the Vision 2 panel will start to regulate the supply temperature by modulating the three way valve to meet the desired supply temperature. Individual outdoor reset curves can be programmed for each of the four mixed zones to the Vision 2 system. Once the room thermostat or 0-10 volt signal is sent, the Vision 2 panel will integrate the operation of the Munchkin Boiler with the mixed zones to regulate the input into the system to assure maximum efficiency of your heating system.

Note: The Vision 2 may be used with Vision 3 when more than one boiler is used for the heating system.

Munchkin Vision 1 & Vision 2 control systems *4 individual space heating temperatures* *Priority domestic water heating*



Munchkin Vision 2 control system *Two individual space heating temperatures* *Domestic water heating* *Sub-zoning using zone valves*

