



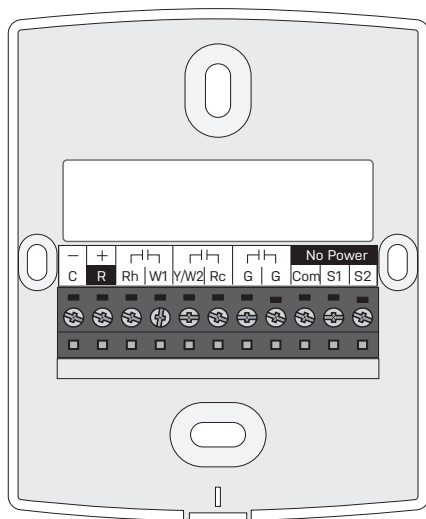
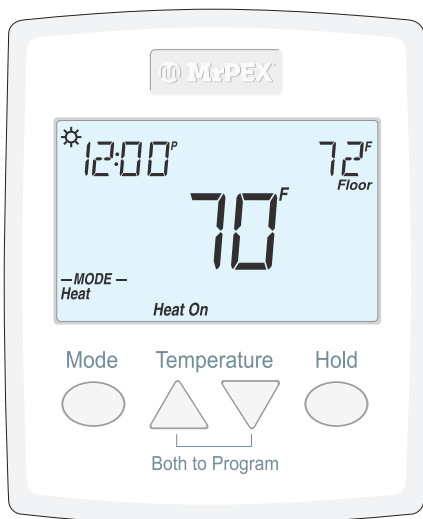
Zoning

521_A

05/17

New

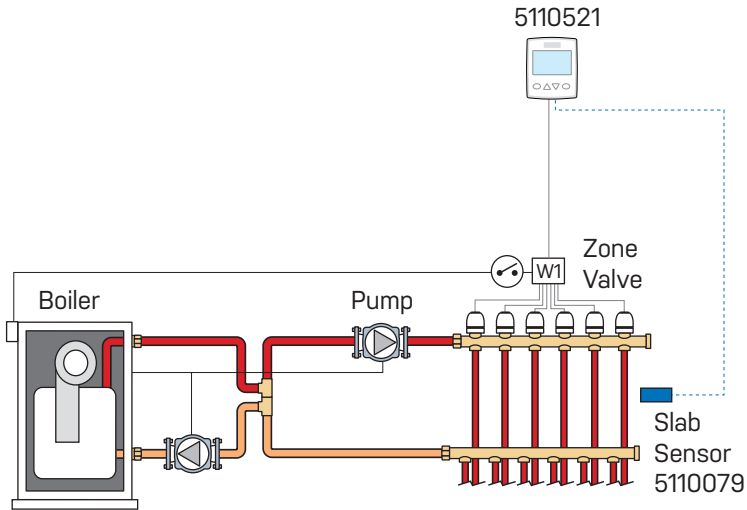
Application Brochure



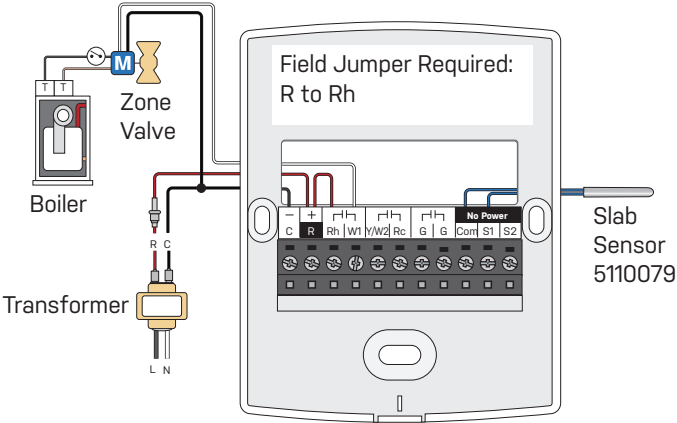
Equipment Compatibility	Page
1 Stage Heat with Zone Valve	2
1 Stage Heat with Zone Pump	4
2 Stage Heat	6
2 Stage Heat / Fan	8
1 Stage Heat / 1 Stage Cool / Fan	10

Description

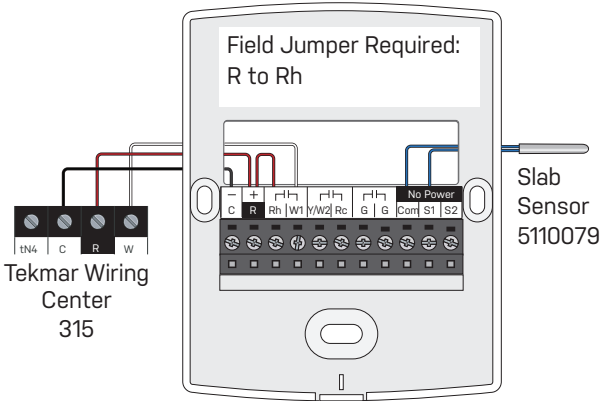
The 521 operates a single hydronic heating zone by operating a zone valve. The boiler is turned on by an end switch. An optional Slab Sensor 5110079 can be installed for radiant floor heating applications. The temperature is automatically adjusted by an optional programmable schedule. Optimum start learns the heat up rate of the room and starts the heating early so that the room is warm at the time set on the programmable schedule.



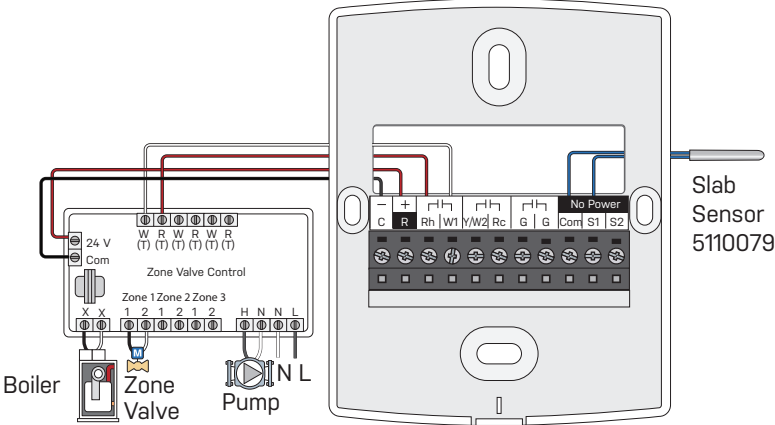
Zone Valve Wiring



Wiring Center Wiring

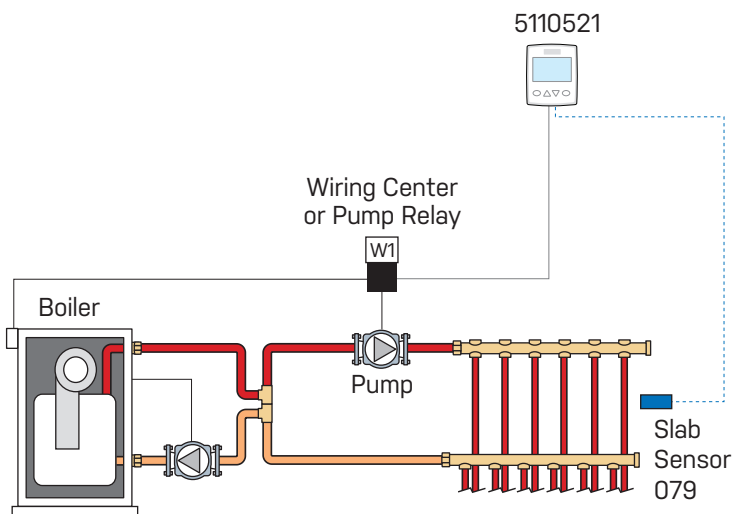


Zone Valve Control Wiring

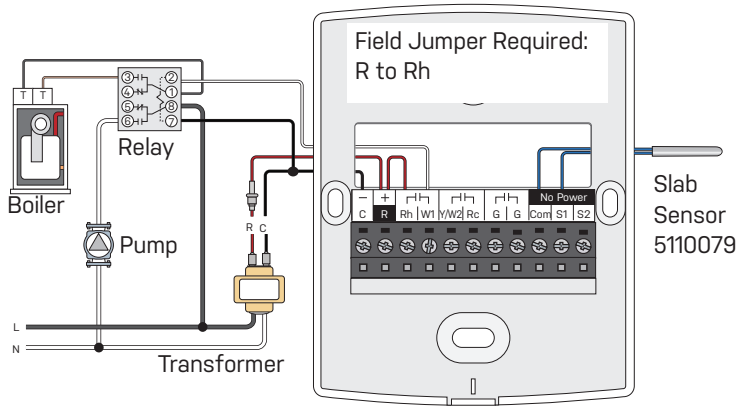


Description

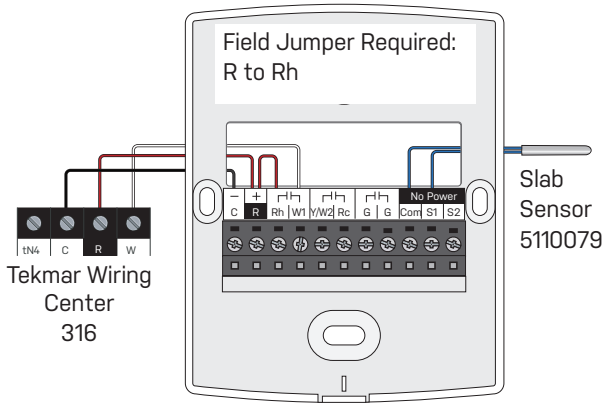
The 5110521 operates a single hydronic heating zone by operating a zone pump. The boiler is operated by an end switch. An optional Slab Sensor 5110079 can be installed for radiant floor heating applications. The temperature is automatically adjusted by an optional programmable schedule. Optimum start learns the heat up rate of the room and starts the heating early so that the room is warm at the time set on the programmable schedule.



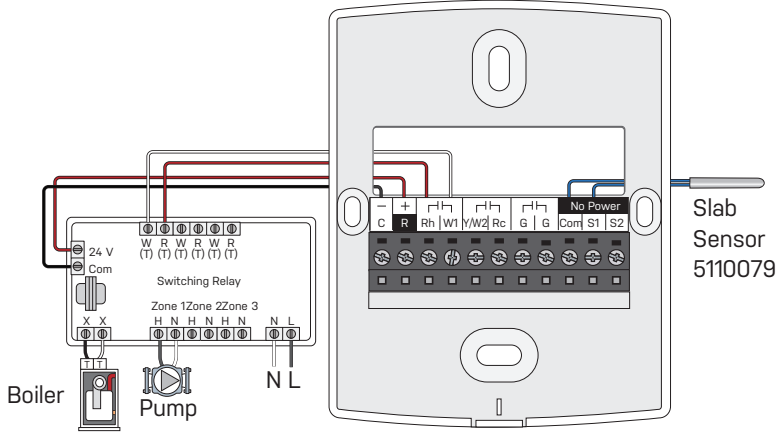
Zone Pump Wiring



Wiring Center Wiring

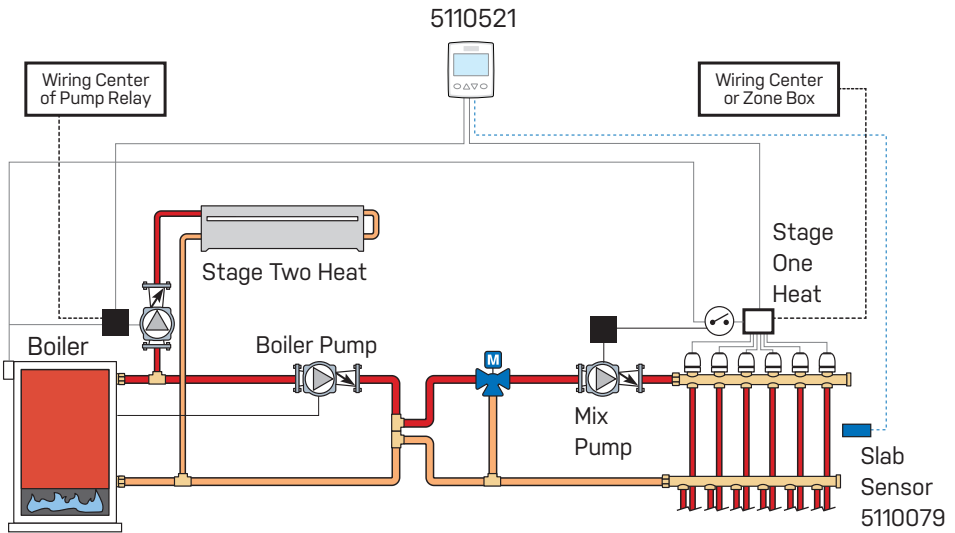


Switching Relay Wiring

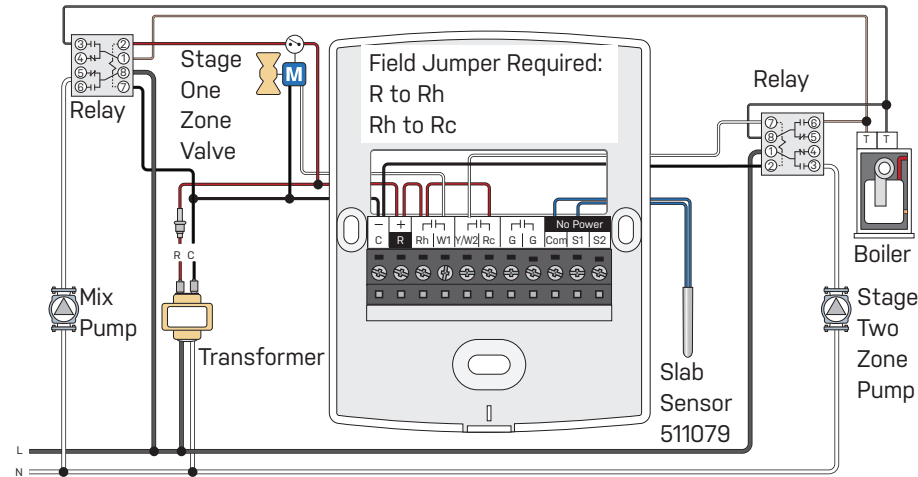


Description

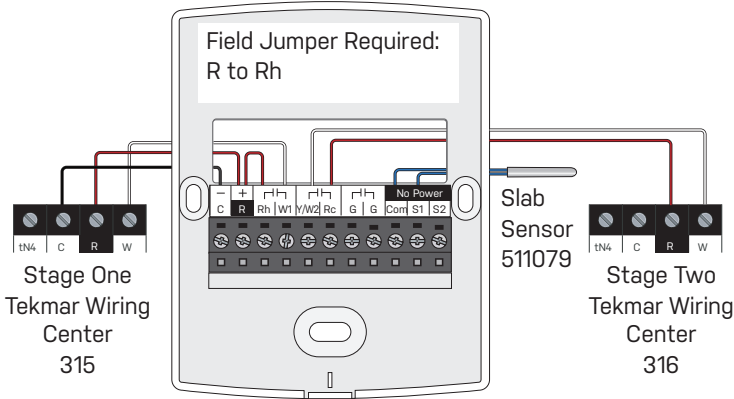
The 5110521 operates a radiant floor as the first stage of heat and a hydronic baseboard as the second stage of heat. An optional Slab Sensor 5110079 can be installed for radiant floor heating applications. The temperature is automatically adjusted by an optional programmable schedule. Optimum start learns the heat up rate of the room and starts the radiant floor heating early so that the room is warm at the time set on the programmable schedule.



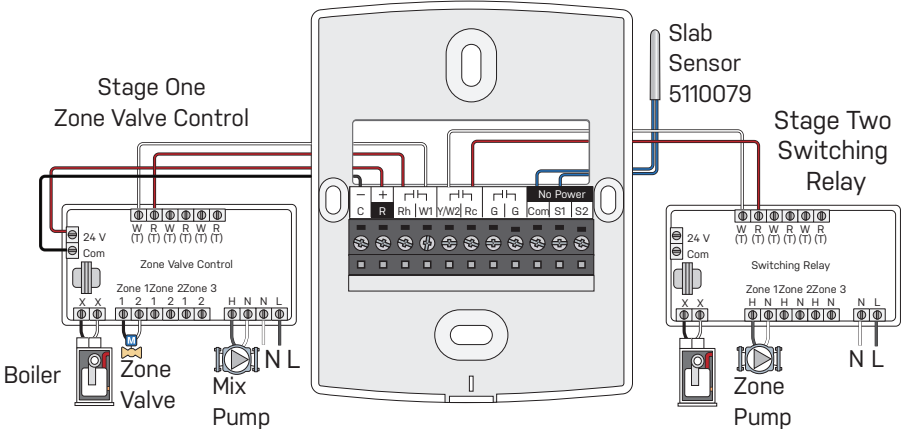
Zone Valve and Relay Wiring



Wiring Center Wiring

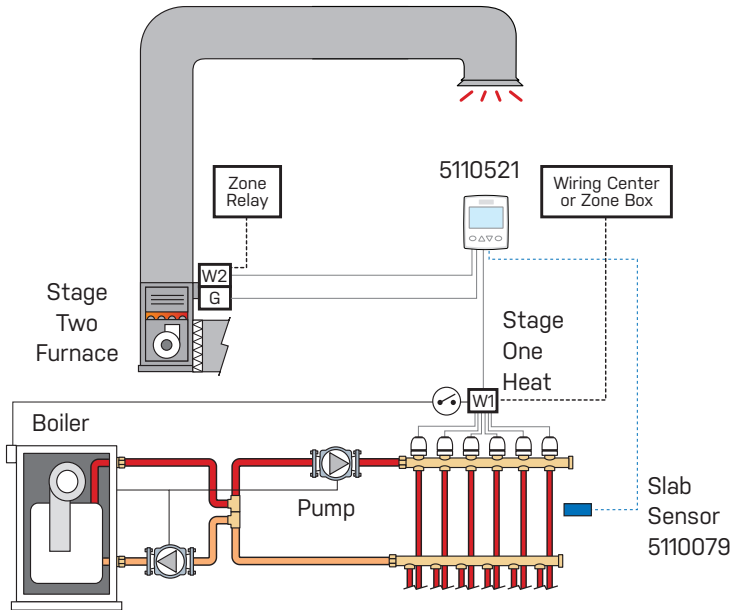


Switching Relay Wiring

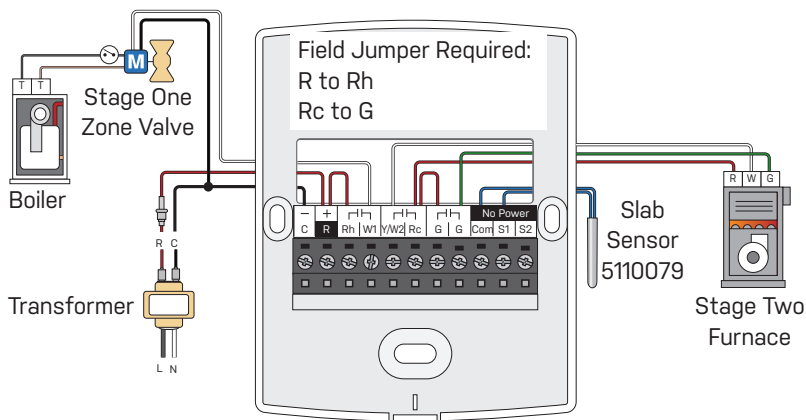


Description

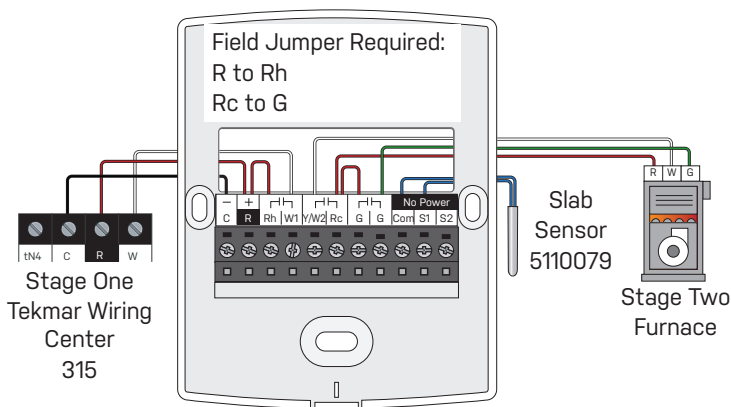
The 5110521 operates a radiant floor as the first stage of heat and a furnace as the second stage of heat. The fan is operated together with the furnace or can be manually set on to provide air circulation in the building. An optional Slab Sensor 5110079 can be installed for radiant floor heating applications. The temperature is automatically adjusted by an optional programmable schedule. Optimum start learns the heat up rate of the room and starts the radiant floor heating early so that the room is warm at the time set on the programmable schedule.



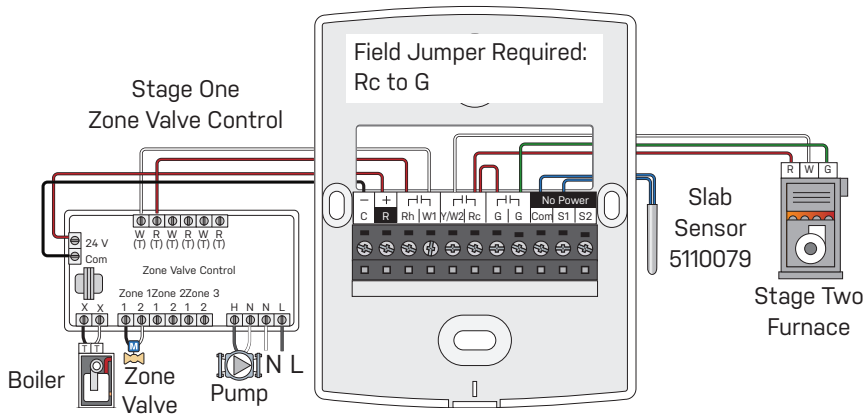
Zone Valve Wiring



Wiring Center Wiring

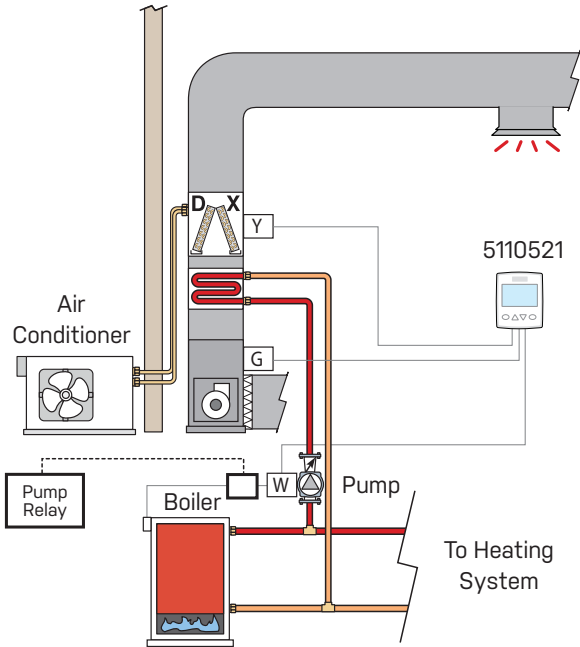


Switching Relay Wiring

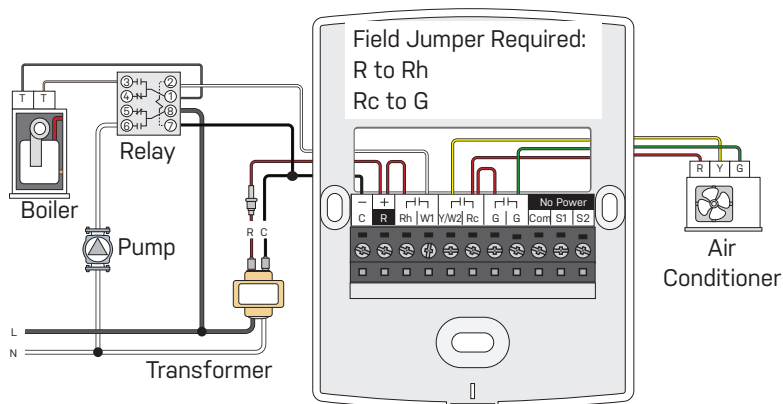


Description

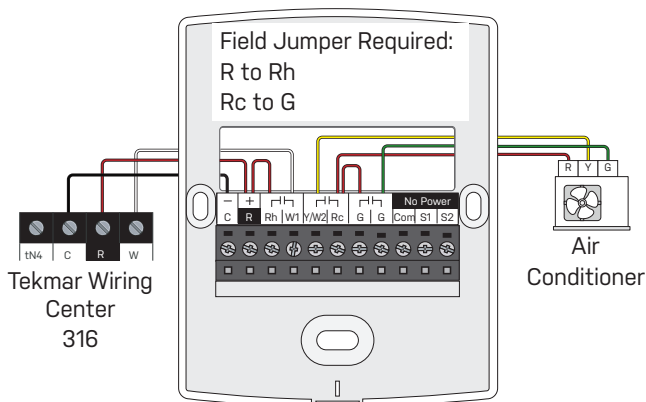
The 5110521 operates a hydronic fan coil for heating and operates an air conditioner for cooling. The temperature is automatically adjusted by an optional programmable schedule. The fan is operated together with the fan coil or air conditioner or can be manually set on to provide air circulation in the building.



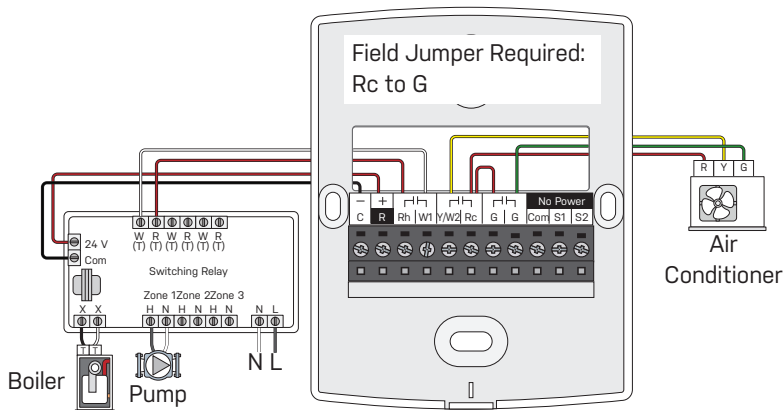
Relay Wiring



Wiring Center Wiring



Switching Relay Wiring



LIMITED WARRANTY—EFFECTIVE MAY 1, 2016 VALID FOR MRPEX® POTABLE PEX-A TUBING, FITTINGS AND OTHER SELECT PLUMBING PRODUCTS

Limited Warranty

MrPEX® Systems warrants to its "clients" that the MrPEX® POTABLE PEX-a Tubing and Plumbing Components, used for Plumbing applications, sold hereunder shall be free from defects in material and workmanship and that the components will conform to specifications stated in MrPEX® Publications. This Limited Warranty shall expire thirty (30) years for the MrPEX® POTABLE PEX-a tubing, five (5) years for Lead Free Brass F1807 PEX Press Fittings, PPSU F2159 PEX Press Fittings and two (2) years for all other components, from date of shipment by MrPEX® Systems unless otherwise specified in writing. MrPEX® Systems further warrants that products listed are compatible with Each other, but at the same time we disclaim warranty for claims related to compatibility with non-MrPEX® products. Components sold under this Limited Warranty must (1) be selected, designed, and installed according to the instructions in MrPEX® Publications using appropriate trade workmanship and according to the local building code(s), (2) remain in their originally installed location, (3) are connected to appropriate water and power supplies, (4) show no evidence of tampering, mishandling, neglect, accidental damage, modification or repair without the approval of MrPEX® Systems or damage done to the product by anyone other than MrPEX® Systems authorized personnel. A ten (10) year system warranty shall be offered when a potable water system is installed solely with MrPEX® Systems tubing, fittings, and components. MrPEX® Systems' sole obligation hereunder shall be, at its option, to issue credit, repair or replace any component or part thereof which is proved to be other than as warranted. No allowance shall be made to clients for transportation or labor charges unless such charges are authorized in writing in advance by MrPEX® Systems. Any repairs without the express written consent of MrPEX® Systems, shall render this Limited Warranty invalid. Warranty claims must be received by MrPEX® Systems within the applicable warranty period and within thirty (30) days from the time when the cause for the claim occurred or was discovered. Upon receipt of prompt notice of a warranty claim, MrPEX® Systems shall have ten (10) business days in which to determine whether it acknowledges responsibility for any asserted defects in material or workmanship and the appropriate action to be taken. This Limited Warranty and any claims arising from breach of warranty, or any other claim arising hereunder, shall be governed and construed under the laws of the State of Minnesota. No other persons than MrPEX® employees have any express or implied authority to bind MrPEX® to any agreement or warranty of any kind without the express written consent of MrPEX® Systems.

Disclaimer of Warranties

MrPEX® Systems disclaims any warranty not provided herein including the implied warranty of merchantability and implied warranty of fitness for a particular purpose. It is expressly understood that MrPEX® Systems is not responsible for any consequential or other damages that may arise from using MrPEX® System components. Damage resulting from water freezing in the tubing does not constitute a defect in material or workmanship, and shall not be covered by this warranty. MrPEX® tubing may not be stored in direct sunlight for any period longer than three weeks or this limited warranty becomes invalid. Also, exposure to direct or considerable indirect sunlight after installation voids this limited warranty. MrPEX® Systems disclaims any statutory or implied warranty of habitability. MrPEX® Systems further disclaims any responsibility for losses, expenses, inconveniences, special, indirect, secondary, incidental or consequential damages arising from ownership or use of the articles sold hereunder. There are no warranties which extend beyond the face hereof.



All specifications are subject
to change without notice

