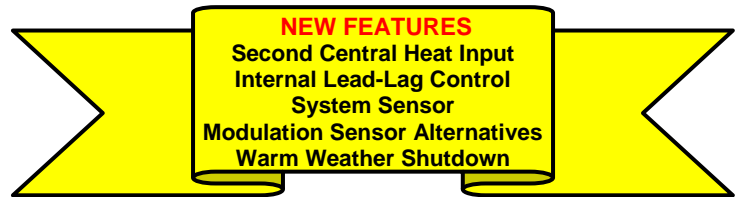


Trinity LX Series

LX150, LX150E, LX200 & LX400



SECOND CENTRAL HEAT INPUT

New LX models incorporate a second central heat input "CH2 (LL)" to compliment central heat input "CH1" (formally "T"). The second central heat input can be used as the demand source for the "low temperature" central heat zones in a single boiler application or as the "lone" central heat input in multiple (lead-lag) boiler applications. Note system designs for low temperature heating zones require mixing.

INTERNAL LEAD-LAG CONTROL

The LX controller now has the internal capacity to stage or lead-lag up to a maximum of 8 boilers or water heaters. To cascade appliances, one unit must be chosen as the designated "Master" (LL Master "Enabled") and all units in the cascade must be "daisy chained" together using a 3-wire cable. The Lead-Lag capability enables the Master to act as the single point of contact for the lead-lag set-point and system control wiring, such as the thermostat demand and system water temperature. The "Master" then communicates with and effectively controls each appliance (slave) in the multiple unit system. For Boiler or Water Heater Applications, input "CH2 (LL)" requires 24VAC from terminal R to initiate a "lead-lag" call. The demand switch is made using an isolated end switch (dry contact) via a storage tank thermostat (aquastat), room thermostat, zone controller or other device.

SYSTEM SENSOR

Each LX will be provided with an optional system water temperature sensor. This will allow the LX to regulate the system supply or return temperature directly. The system sensor is only applicable for Boiler Applications.

MODULATION SENSOR ALTERNATIVES

To increase the accuracy and control over the operation of the hot water heating system, the LX control incorporates the ability for the installer to select the desired modulation sensor for the given demand. Previous LX models only provided control of the unit's Outlet temperature where new LX models allow control of the unit's Inlet, Outlet, or System water temperature.

WARM WEATHER SHUTDOWN

When Warm Weather Shutdown (WWSD) is enabled, this feature will "prevent" Central Heat operation when the outdoor temperature exceeds the WWSD setpoint and "permit" Central Heat operation if the outdoor temperature drops below the WWSD setpoint by 4°F.

IMPLEMENTATION

Model Numbers: LX150/150E

Starting Serial Number: 49720

Date Code: Feb 9 / 10

Model Numbers: LX200/400

Starting Serial Number: 48252

Date Code: Feb 9 / 10

WHERE TO FIND IT IN THE MANUAL

Trinity LX Manuals	Feature	Section in Manual	Reference
Installation & Operation Instructions	Second Central Heat Input	Introduction	Pg. 4
	Internal Lead-Lag Control		
	System Sensor		
	Modulation Sensor Alt.		
	Warm Weather Shutdown		
Appendix A - Controller & Touchscreen Display Instructions	Second Central Heat Input	Second Central Heat Input & Multiple Unit Application Settings	Tab. 1-3, 1-4, 1-5
	Internal Lead-Lag Control	CH Configuration (CH1); DHW Configuration (DHW)	Pg.10, 14
	System Sensor		
	Modulation Sensor Alt.	WWSD Configuration	Fig. 4-10, Tab. 4-9
	Warm Weather Shutdown		
Appendix B - Boiler Applications	Second Central Heat Input	Stand Alone Boiler Applications	Fig. 2-2, 2-3
	Internal Lead-Lag Control	Low Voltage Wiring	Fig. 3-2
		Multiple Boiler Applications	Fig. 2-4, 2-5
		Low Voltage Wiring	Fig. 3-3, 3-4
	System Sensor	Low Voltage Wiring	Pg.16
	Modulation Sensor Alt.		
Warm Weather Shutdown			
Appendix C - Water Heaters Applications	Internal Lead-Lag Control	Stand Alone Water Heater Applications	Fig. 2-2
		Low Voltage Wiring	Fig. 3-2
		Multiple Water Heater Applications	Fig. 2-3
		Low Voltage Wiring	Fig. 3-3
		Modulation Sensor Alt.	Low Voltage Wiring