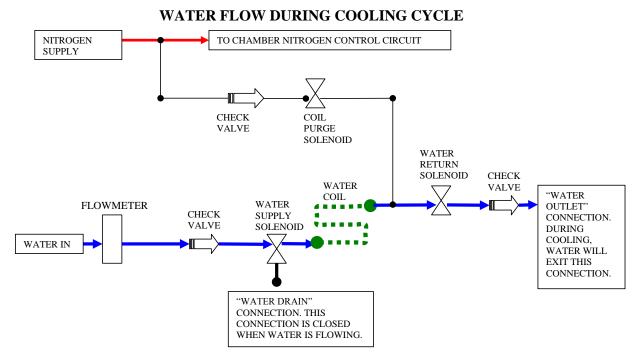
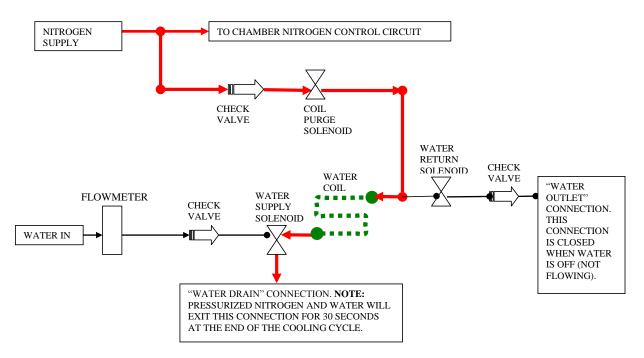


Despatch LCC/LCD Water Cooling Block Diagram

LCC/LCD/LLC/LLD WATER FLOW DIAGRAM



NITROGEN/WATER PURGE FLOW AT END OF COOLING CYCLE



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LCC/LCD1-16 & LCC/LCD1-51 Water Cooling

4.2.2. Oven Utility Connections

Utility connections vary slightly on different LCC/LCD models. Table 3 lists the connection purposes and parameters. Refer to Figure 6 for visual reference.

Connection	LCC/LCD Air Atmosphere with	LCC/LCD Nitrogen Atmosphere
(Figure 6)	optional Water-Cooled Models	Models with standard water-cooling
NITROGEN INLET	 Clean Dry Air Inlet (70-80 psi (4.83-5.52 bar)) Purge water from coil prior to heating oven 1/4" NPT female brass connections provided 	 Nitrogen Inlet (58-86 psi (4-6 bar)) Purge nitrogen, clean dry air and water from coil prior to heating the oven 1/4" NPT female brass connections provided.
WATER OUTLET	 During cooling cycle, water flows through the water coil and out this connection 3/8" NPT female brass connections provided Piping must be rated for up to 250 °F (121°C) 	
WATER DRAIN	 At the end of a cooling cycle, Nitrogen or Clean Dry Air is purged through the water coil. Water and pressurized nitrogen/air exit this connection for 30 seconds. Must be connected to gravity style drain (no backpressure). 3/8" NPT female brass connections are provided. Piping must be rated for up to 250 °F (121 °C) 	
WATER INLET	 Water Inlet for cooling 3/8" NPT female brass connections provided Requires 2 GPM flow at 61 °F (16°C) to meet published cooling rates. Maximum Pressure 100 PSI (6.89 Bar) Maintain a 20 PSI (1.4 bar) pressure differential at 2 GPM (7.6 lpm) water flow 	

4.2.2.1. Nitrogen With Water-Cooled Models

1. Connect nitrogen supply line to NITROGEN INLET at the connections panel (Figure 6).



Nitrogen pressure supplied should be greater the 58 psi (4 bar) but not more than 86 psi (6 bar).

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2. Install water connection for cooling coils to WATER INLET (Figure 6). Verify the valve on the flowmeter is turned OFF, that is, fully clockwise.

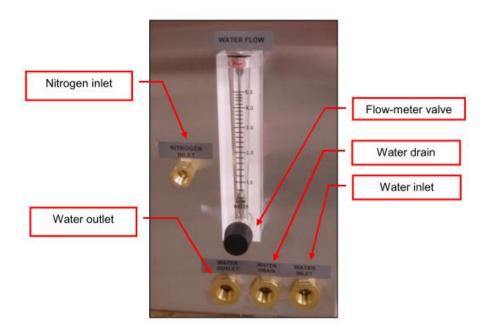


Figure 6. LCC/LCD Connections Panel.



3. Check for leaks by slowly opening the valve on the flowmeter and allowing any air to bleed out.



Caution!

Failure to allow air to bleed from the flowmeter may damage the flowmeter. Bleed air from the flowmeter after every instance of shutting off the water supply.

- 4. Adjust the flowmeter to the recommended 2 gpm (11.4 lpm).
- Complete the drain connection on oven side by connecting WATER OUTLET to the closed loop system (Figure 6).

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LCC/LCD2-14 Water Cooling

Connection	LCC/LCD Air Atmosphere models with optional water-cooling	LCC/LCD Nitrogen Atmosphere models with standard water-cooling
WATER DRAIN	 At the end of a cooling cycle, Nitrogen or Clean Dry Air is purged through the water coil. Water and pressurized nitrogen/air exit this connection for 30 seconds. Must be connected to gravity style drain (no backpressure). 3/8" NPT female brass connections provided Piping must be rated for up to125°C (257°F) 	
WATER INLET	 Water Inlet for cooling 3/8" NPT female brass connections provided Requires 3 GPM (11 LPM) flow at 13°C (55°F) to meet published cooling rates Maximum Pressure 100 PSI (6.89 Bar) 	

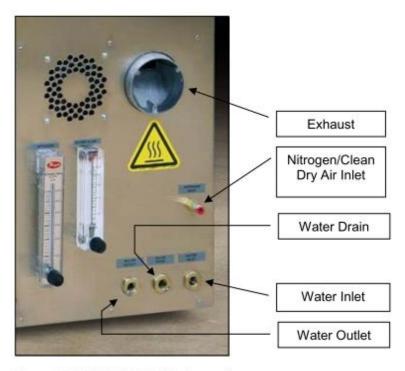


Figure 7. LCC/LCD2-14 Utility Connections.

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