

## ***Scope of Work for Coolcentric Professional Services***

**Date:** January 15, 2010

**Applicable Services:** S2NWRDCD0x, S2NWiRDCD0x

**Description of Service:** Level 2 System Commissioning Service

### **Scope of Work:**

1. Verify proper electrical and mechanical installation according to the Coolant Distribution Unit (CDU) Installation Guide.
2. Install Transition Frames as required, de-crate and hang each Rear Door Heat Exchanger (RDHx) on customer enclosures. Disposal of shipping materials is the responsibility of the customer.
3. Run Hose Kits from secondary distribution manifold to RDHx, under raised floor or in suitable overhead cable trays only. Make connections to both manifold and RDHx supply/return. Cutting penetrations in raised floor and installation of brush strips are the responsibility of the customer unless purchased separately.
4. Fill the system with cleaning fluid (if purchased), circulate in system and flush. Fill the system with pre-mixed treated water and purge air from the system. Disposal of cleaning fluid is responsibility of customer.
5. Verify proper operation of the CDU and RDHx, confirm factory settings and adjusting site specific parameters.
6. Mount Web/SNMP/MODBUS Gateway (if purchased and unless installed outside CDU). Start up Gateway (if purchased) and verify communication between Gateway and CDUs. Wiring between CDUs is responsibility of customer.
7. Verify and record serial numbers of installed products for confirmation of warranty entitlements.
8. Perform an 'at the unit' training on operation of the CDU, assuming staff can be present on completion of the commissioning. Up to 4 staff members will be trained. The training will be a maximum of 30 minutes and cover operation of the unit only. Classroom training not provided.
9. Service limited to Continental US and Canada.
10. Number of units to be commissioned not to exceed quantities stated in the quoted service description.
11. Installation of external manifolds and connection to the CDU secondary supply/return is the responsibility of customer unless purchased separately.
12. Service is conducted as a single deployment by a Coolcentric field technician, multiple dispatches are not provided.
13. Service is conducted during normal business hours. Customer must provide reasonable access to the facility during this time.
14. Customer will provide one (1) person at the site capable of lifting 25 kg (55 lbs) to assist during the commissioning service.
15. Pre-Commissioning Agreement must be completed and returned to Coolcentric two weeks prior to scheduling of dispatch.