



MODEL – QWC4

INSTALLATION CHECKLIST AND REQUEST FOR AUTHORIZED START-UP TECHNICIAN

CUSTOMER: _____ JOB NAME: _____
 ADDRESS: _____ LOCATION: _____
 PHONE: _____ CUSTOMER ORDER NO: _____
 QTC TEL NO: _____ QTC ORDER NO: _____ QTC CONTRACT NO: _____

CHILLER MODEL NO: _____ UNIT SERIAL NO: _____

The work (as checked below) is in process and will be completed by: _____ / _____ / _____
 Month Day Year

The following work must be completed in accordance with installation instructions:

A. QUANTECH CHILLER

1. Unit checked for shipping damage..... ☐

NOTE: Any damage MUST be reported to Quantech immediately for inspection.

Initials: _____

Company Name: _____

Date: _____

2. Unit assembled (if shipped dismantled) and refrigerant piping installed ☐
 3. Vibration isolator mounted so that the unit is level and isolators are equally deflected ☐
 4. If applicable, monitoring alarm is installed, functional, and operational ready for service ☐

B. WATER PIPING

1. Condenser water piping installed between condenser, pumps and cooling tower ☐
 2. Chilled water piping installed between cooler, pumps, and cooling coils..... ☐
 3. Make-up and fill lines installed to cooling tower and chilled water system..... ☐
 4. All water piping checked for strain.
NOTE: Piping should not spring at unit..... ☐
 5. Water piping leak tested and flushed; water systems filled with water and trapped air is vented ☐
 6. Chilled and condenser water flow available to meet unit design requirements..... ☐
 7. Verify the chilled and condenser liquid systems have been connected correctly, and commissioned with the correct direction of water flow. The inlet should be at the bottom connection on a two-pass shell. Purge air from the top of the waterbox, using the plugged air vent, mounted on the top of the waterbox. ☐

C. REFRIGERANT RELIEF PIPING (When required)

1. Refrigerant relief piping installed from unit to atmosphere (per local building code)..... ☐

D. ELECTRICAL WIRING

1. Variable Speed Drive (VSD):
 a. Main power supply available ☐
 b. Wiring completed from main power supply up to VSD.
NOTE: DO NOT cut to length or connect to drive without Quantech supervision..... ☐
 2. External control wiring completed according to the wiring diagram shipped with the unit..... ☐
 3. Power available, wiring completed, and rotation checked to the following drives and motors:
 a. Chilled water pump(s)..... ☐
 b. Condenser water pump(s)..... ☐
 c. Cooling tower fan..... ☐
NOTE: DO NOT check compressor motor.
 4. Megohm tester available for checking motor windings. Tester not necessary unless start-up indicates a motor winding short ☐
 5. Connect the following system inputs to their respective terminals of 1TB Terminal Box: ☐
 a. Chilled Liquid Flow Switch - Terminals 2 and 13 ☐
 b. Condenser Liquid Flow Switch - Terminals 2 and 12 ☐
 c. System 1 Remote Run Permissive - Terminals 2 and 15 ☐
 d. System 2 Remote Run Permissive - Terminals 2 and 16 ☐
NOTE: If remote run permissive is not used, place a jumper across the terminals to allow the system to run.
 e. Remote Print - Terminals 2 and 14 ☐

6. Connect the following optional analog inputs to their respective terminals of 1TB Terminal Block ☐
- a. Leaving Chilled and Condenser Temperature Reset Control - Terminals 17 and 18 ☐
- b. Current Limit Reset Control - Terminals 19 and 20 ☐
- c. Remote Mode Selection (Optional Heat Pump) - Terminals 40 and 41 ☐

**E. TESTING, EVACUATION AND CHARGING
(Under Quantech supervision)**

NOTE: This section does not apply for chillers shipped with refrigerant installed at the factory.

1. R-134a/R-513A available for testing ☐
2. Dry nitrogen available for testing (Grade B or better)..... ☐
3. A high vacuum pump available to evacuate and dehydrate system..... ☐
4. Refrigerant (supplied by Quantech) is available for charging ☐
5. Unit has been or is ready to be been pressure tested, evacuated, dehydrated, and charged..... ☐

F. CONDITIONS

1. YORK oil for compressor available ☐
2. Cooling load available for testing and operating unit ☐
3. Personnel available for final wiring connections ☐
4. Personnel available for start-up and testing..... ☐

Owner's operating personnel:

Name: _____ Phone _____

Name: _____ Phone _____

CONTRACTOR'S RESPONSIBILITIES AND INSTRUCTIONS TO USE FORM

This installation checklist provides a quick way to check if all necessary installation work was completed in accordance with all applicable installation instructions in the unit Installation, Operation and Maintenance manual, and when completed, acts as a request for Quantech to furnish start-up supervision.

Complete this form as follows:

1. Fill out the top of the page.
2. Check off each item as required. Cross out (x) items that do not apply.
3. Enter names, initials, and date of the operating personnel who completed the checklist.
4. **Bottom of Form:** Enter the date that the Quantech start-up technician should be at the job site and the name(s) of the supervisor(s) to be contacted. Retain one copy in files and send one copy to customer.

With reference to the terms of the above contract, we are requesting the presence of your Quantech Authorized Representative at the job site on

____ / ____ / ____ to start the system and instruct operating personnel. Have the Quantech representative contact: _____
Month Day Year Name/Phone

We understand that the services of the Quantech Authorized Representative will be furnished in accordance with the contract for a period of time of not more than _____ consecutive normal working hours, and we agree that a charge of _____ per diem plus travel expenses will be made to Quantech if services are required for longer than _____ consecutive normal hours or if repeated calls are required, through no fault of Quantech.

Customer/Contractor Signature: _____ **Title:** _____

Form Completed by: _____ **Date:** _____

