



MODEL – YVWA

INSTALLATION CHECKLIST AND REQUEST FOR AUTHORIZED START-UP TECHNICIAN

CUSTOMER: ADDRESS: PHONE: JCI TEL NO: JOB NAME: LOCATION: CUSTOMER ORDER NO: JCI ORDER NO: JCI 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. YORK CHILLER

- 1. Unit checked for shipping damage

NOTE: Any damage MUST be reported to Johnson Controls 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 water box, using the plugged air vent, mounted on the top of the water box.

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 JCI 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

<p>c. System 1 Remote Run Permissive - Terminals 2 and 15 ..... <input type="checkbox"/></p> <p>d. System 2 Remote Run Permissive - Terminals 2 and 16 ..... <input type="checkbox"/></p> <p><b>NOTE:</b> If remote run permissive is not used, place a jumper across the terminals to allow the system to run.</p> <p>e. Remote Print - Terminals 2 and 14 ..... <input type="checkbox"/></p> <p>6. Connect the following optional analog inputs to their respective terminals of 1TB Terminal Block ..... <input type="checkbox"/></p> <p>a. Leaving Chilled and Condenser Temperature Reset Control - Terminals 17 and 18 ..... <input type="checkbox"/></p> <p>b. Current Limit Reset Control - Terminals 19 and 20 ..... <input type="checkbox"/></p> <p>c. Remote Mode Selection (Optional Heat Pump) - Terminals 40 and 41 ..... <input type="checkbox"/></p>	<p>2. Dry nitrogen available for testing ..... <input type="checkbox"/></p> <p>3. A high vacuum pump available to evacuate and dehydrate system ..... <input type="checkbox"/></p> <p>4. Refrigerant (supplied by Johnson Controls) is available for charging ..... <input type="checkbox"/></p> <p>5. Unit has been or is ready to be been pressure tested, evacuated, dehydrated, and charged ..... <input type="checkbox"/></p>
<p><b>E. TESTING, EVACUATION AND CHARGING (Under Johnson Controls Supervision)</b>  <b>NOTE:</b> This section does not apply for chillers shipped with refrigerant installed at the factory.</p> <p>1. R-134a available for testing ..... <input type="checkbox"/></p>	<p><b>F. CONDITIONS</b></p> <p>1. YORK oil for compressor available ..... <input type="checkbox"/></p> <p>2. Cooling load available for testing and operating unit ..... <input type="checkbox"/></p> <p>3. Personnel available for final wiring connections ..... <input type="checkbox"/></p> <p>4. Personnel available for start-up and testing ..... <input type="checkbox"/></p> <p><b>Owner's operating personnel:</b></p> <p>Name: _____ Phone _____</p> <p>Name: _____ Phone _____</p>

**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 Form 201.30-ICOM2, and when completed, acts as a request for Johnson Controls 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 Johnson Controls 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 JCI Authorized Representative at the job site on \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to start the system and instruct operating personnel. Have the JCI representative contact: \_\_\_\_\_  
Month Day Year Name/Phone

We understand that the services of the Johnson Controls 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 Johnson Controls if services are required for longer than \_\_\_\_\_ consecutive normal hours or if repeated calls are required, through no fault of Johnson Controls.

**Customer/Contractor Signature:** \_\_\_\_\_ **Title:** \_\_\_\_\_

**Form Completed by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

