



# MODEL – YMC<sup>2</sup> MOD B

## INSTALLATION CHECKLIST AND REQUEST FOR AUTHORIZED START-UP ENGINEER

TO: \_\_\_\_\_ JOB NAME: \_\_\_\_\_  
 \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 \_\_\_\_\_ CUSTOMER ORDER NO: \_\_\_\_\_  
 JCI TEL NO: \_\_\_\_\_ JCI ORDER NO: \_\_\_\_\_ JCI CONTRACT NO: \_\_\_\_\_

CHILLER MODEL NO: \_\_\_\_\_ 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. CHILLER

1. Initial inspection:
  - a. Unit shipment checked to ensure all major components, boxes, and crates arrived without any damages.....  
**NOTE:** Any damage MUST be reported to the transportation company immediately for their inspection.
  - b. All boxes and crates opened and inventoried with the packing list.....  
**NOTE:** Any damage MUST be reported to Johnson Controls immediately for inspection.
2. Component inspection:
  - a. Compressor components:
    - Compressor body.....
    - Transducers, wiring harnesses.....
    - VGD actuator and linkages.....
  - b. Condenser/Evaporator shell components:
    - Condenser/Evaporator relief valves.....
    - Condenser/Evaporator transducers.....
    - Condenser/Evaporator wiring harnesses.....
    - Condenser/Evaporator insulation.....
    - Condenser/Evaporator paint.....
    - Condenser/Evaporator waterbox shipping blanks in place.....
    - Hot gas valve (if the option was ordered).....
    - Nitrogen pressure in vessels (other than Form 1) ..
  - c. Control Panel components:
    - User interface and display.....
    - Internal wiring and components.....
    - Any evidence of water infiltration.....
    - Panel mounts and enclosure.....
  - d. VSD Panel components:
    - Internal components and wiring.....
    - Any evidence of water infiltration.....
    - Panel mounts and enclosure.....
    - Check cooling system for leaks.....

**NOTE:** Any component notes may be recorded in the components notes space provided on the following page(s).

3. Unit assembled (if shipped dismantled) and refrigerant piping installed under YORK/Johnson Controls supervision.....
4. Vibration isolator mounts so that the unit is level, and isolators are equally deflected.....
5. If using a monitoring alarm, it is installed, functional & 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 – piping should not spring when connections are broken at unit.....
5. Water piping leak tested and flushed, and water strainers cleaned after flushing.....
6. Piping systems filled with water and trapped air vented.....
7. Chilled and condenser water flow available to meet unit design requirements.....

### C. REFRIGERANT RELIEF PIPING (when required)

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

### D. ELECTRICAL WIRING

1. Variable Speed Drive:
  - a. Main power supply available.....
  - b. Wiring completed from main power supply to Variable Speed Drive.....  
**NOTE:** Do NOT cut to length or connect to drive without JCI supervision.
2. Control Center:
  - a. Jumper wire NOT installed between terminal 24 and 25 located on the control center terminal strip (TB-6).....
  - b. External control wiring completed from the control center to chilled water flow switches or interlocks in accordance with the YORK Wiring Diagram Form 160-84-PW1.....

c. Power available and wiring completed to the following drives and motors, and rotation of each checked:

**NOTE:** Do NOT check compressor motor rotation.

- 1. Chilled water pump(s).....
- 2. Condenser water pump(s).....
- 3. Cooling tower fan.....

**E. TESTING, EVACUATION AND CHARGING**

(Under JOHNSON CONTROLS Supervision if Unit Shipped Less Refrigerant or Dismantled)

- 1. Dry Nitrogen available for testing .....
- 2. A high vacuum pump available for evacuation and dehydration of system .....
- 3. Refrigerant (supplied by Johnson Controls) is available for charging .....
- 4. Unit has been or is ready to be been pressure tested, evacuated, dehydrated and charged .....

**F. CONDITIONS**

- 1. Cooling load available for testing and operating unit .....
- 2. Personnel available for final wiring connections .....
- 3. Personnel available for start-up and testing .....

**Owner's operating personnel:**

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

**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 160.84-N1, 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.
- 5. 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:** \_\_\_\_\_

