



# YIA ABSORPTION CHILLER WITH OPTIVIEW™ CONTROL PANEL

STARTUP CHECKLIST

Supersedes 155.21-CL2 (117)

Form 155.21-CL2 (317)

## STARTUP CHECKLIST

CUSTOMER: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

LOCATION: \_\_\_\_\_

PHONE: \_\_\_\_\_

CUSTOMER ORDER NO: \_\_\_\_\_

JCI TEL 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. GENERAL

1. Review the Installation Checklist (Form 155.21-CL1) \_\_\_\_\_
2. Chiller is properly installed and leveled \_\_\_\_\_
3. Vibration isolators or pads properly installed \_\_\_\_\_
4. Evaporator and Condenser water piping is complete \_\_\_\_\_
5. Water piping is supported properly and there is NO strain on the waterboxes \_\_\_\_\_
6. Strainers are clean and installed in both evaporator and condenser water circuits prior to water supply to chiller \_\_\_\_\_
7. Water connections arranged to match design specifications \_\_\_\_\_
8. Relief piping is complete and meets local building codes \_\_\_\_\_
9. Wiring is complete per field wiring specifications per Form 155.21-W3 \_\_\_\_\_
10. Confirm any field control wiring modifications are done per Form 155-21-W2 \_\_\_\_\_
11. Verify chiller is charged with refrigerant \_\_\_\_\_
12. Verify all operating valves are open and service valves to atmosphere are closed. \_\_\_\_\_
13. Leak check the chiller \_\_\_\_\_

### B. OPTIVIEW CONTROL PANEL (Refer to Form 155.21-M1) SYSTEM COMMISSIONING CHECKLIST

Use the following checklist during commissioning to assure all setpoints have been programmed to the desired value and all calibrations have been performed. The programming of some of setpoints and to assure access to all Setpoints, login at SERVICE access level before beginning.

The setpoints are grouped under the Display Screen in which they appear. The indented screens are subscreens of the numbered screens and are accessed from the numbered screens. An explanation of each setpoint or calibration procedure below is contained in the reference document listed in parenthesis adjacent to each item. If any of the Setpoints have to be changed, use the standard programming procedures in Operation Manual Form 155.21-O1. Thresholds, values, and calibrations of items marked with an asterisk (\*) have been determined and entered/set at the factory at the time of manufacture.

### C. PROGRAM JUMPERS/SWITCHES: (155.21-M1)

Verify Microboard Program Jumpers and Program Switches are configured appropriately \_\_\_\_\_

### D. EVAPORATOR / ABSORBER Screen: (155.21-O1)

Record the following:

Evaporator:

Returning Chilled Liquid Temperature \_\_\_\_\_

Leaving Chilled Liquid Temperature \_\_\_\_\_

Chilled Liquid Temperature Setpoint \_\_\_\_\_

Absorber:

Cooling Liquid Temperature Returning \_\_\_\_\_

**NOTE:** This form must be filled out completely and emailed within 48 hours of commissioning to: [BE-ChillerForms@jci.com](mailto:BE-ChillerForms@jci.com)

**E. SYSTEM Screen: (155.21-O1)**

Record the following setpoints:

Pumps:

Solution \_\_\_\_\_   
Refrigerant \_\_\_\_\_

Liquid Flow:

Condenser \_\_\_\_\_   
Chilled \_\_\_\_\_

Solenoid Valves:

2SOL \_\_\_\_\_   
3SOL \_\_\_\_\_

**F. PURGE Screen: (155.21-O1)**

Record the following:

Purge Pump Pressure \_\_\_\_\_   
Purge Tank Pressure \_\_\_\_\_   
Purge Pump (Auto / Manual) \_\_\_\_\_   
7SOL \_\_\_\_\_   
8SOL \_\_\_\_\_

**G. GENERATOR / CONDENSER Screen: (155.21-O1)**

Record the following:

Generator Pressure \_\_\_\_\_   
Steam in Temperature \_\_\_\_\_   
Steam in Pressure \_\_\_\_\_   
Strong Solution Temperature \_\_\_\_\_   
Strong Solution Concentration \_\_\_\_\_   
ADC Temperature \_\_\_\_\_   
Leaving STS \_\_\_\_\_   
Min. Temperature to crystallize \_\_\_\_\_   
Leaving Condenser Cooling Liquid Temperature \_\_\_\_\_   
Refrigerant from Condenser Temperature \_\_\_\_\_

**H. CONTROL VALVE Screen: (155.21-O1)**

Record the following:

Valve Part Number \_\_\_\_\_   
Valve Type \_\_\_\_\_   
Load Limit Values \_\_\_\_\_

**I. SEPOINTS Screen: (155.21-O1)**

Record the following setpoints:

Operational Setpoints:

Maximum Purge / Week \_\_\_\_\_   
Purge Pump Service Interval \_\_\_\_\_   
Purge Warm-up \_\_\_\_\_   
Automatic Restart After Power Failure \_\_\_\_\_   
Motor Coolant Solenoid Temp Open \_\_\_\_\_   
Refrigerant Pump Shutdown Timer Setpoint \_\_\_\_\_   
Refrigerant Pump Start-up Delay \_\_\_\_\_   
Refrigerant Pump Shutoff Delay \_\_\_\_\_   
Percent Full Valve Stroke \_\_\_\_\_   
RT3 Strong Soln from Gen Temp. Offset \_\_\_\_\_   
RT9 Condenser Refrigerant Temp. Offset \_\_\_\_\_   
Low Leaving Chilled Water Offset \_\_\_\_\_   
Low Leaving chilled Water Offset \_\_\_\_\_   
Short Dilution Cycle Setpoint \_\_\_\_\_

Pulldown Setpoints:

Pulldown Loading Stop Setpoint \_\_\_\_\_   
Pulldown Loading Start Setpoint \_\_\_\_\_   
Pulldown Interval Timer \_\_\_\_\_   
Ramp Down Interval Timer \_\_\_\_\_

**J. DIAGNOSTICS Screen: (155.21-O1)**

Record the following:

Software Version \_\_\_\_\_

**K. SALES ORDER Screen: (155.21-O1)**

Acquire a printout of the Sales Order Screen \_\_\_\_\_

**L. OPERATION**

Check cooler and condenser water flows are reasonably close to design (+/-10%) \_\_\_\_\_

Start Chiller \_\_\_\_\_

After the chiller has come up to full load at design leaving chilled water, log chiller operation (155.16-F2) \_\_\_\_\_

