



## Installation Start Up Commissioning Report and Statement

In order to properly Administer the Warranty provided to our Client, we have provided the following direction that shall be performed in order to offer the Client and the OEM the baseline data of new equipment on initial start-up. These readings shall be used to qualify the actual parameters at initial operation and successful pull down. These Start Up forms are supplied in *fillable* format as an Adobe pdf. These Forms' data input process includes a digital back up by a Time and Date Stamped jpeg to also be converted to a pdf when submitted with the Form(s) for each reading required on the Form. These data are a requirement by the OEM and serve also as the main proponent to fulfilling the Installation SOW in order to be compensated for the work.

Installation Date Customer ID

Location Address

Contractor of Record Technician Signature

### Fixture Data General Conditions

Store Ambient at Equipment Location *Prior* to Start Up °F RH at Equipment Location *Prior* to Start Up %

Store Ambient at Equipment Location *After* Pull Down °F RH at Equipment Location *After* Pull Down %

*(Check for "yes" on checkboxes)*

Digital Thermal Images Supplied?

Shelving Schematic Installed Prior to Start Up?

*Highly Recommended as Support for the Above*

*Highly Recommended to Insure Proper "Doors Closed" Start Up Process*

Time of Day at Start Up

Time of Day *After* Pull Down and *First* Cycle

### Fixture Identification and Operational Questions

Model#

Serial #

Electrical Home Run Distance Source Ft. MOCP Amps Conductor Size THHN

*(Check for "yes" on checkboxes)*

All Evap Fans Running?

During Defrost?

Check all fans: Plenums-Shrouds-Blades-Electrical Connection Plugs

All Condenser Fans Running?

During Defrost?

Continuous Operation?

Filter Installed?

Health Department Thermometer at Air Return Grille?

Doors Operated/Adjusted?

Gaskets Inspected?

Closure on seems installed?

Remove Fork-Lift Guides on any LT Fixture (Provide Pics)

Fixture End Bollard Protection Installed?

Case Closures Installed? Rear?

Side Bottom Skirt

All LED's Operational?

Drain Type: Cal Rod Evapoway Floor Drains Serpentine Discharge Line in Pan

If Cal Rod, Amps: A

Notes of Interest to OEM Report:

## Electrical Data Record

Check ALL Electrical Connections for Tightness Before Start Up Y/N?

Unit Voltage Measured Before Start Up: V (208/230V)

Volts L1/L2 to Neutral L1 v L2 v Grounds Intact?

Unit Voltage measured During Run Time: V (208/230V)

Amps At Start Up A Amps During Defrost A Frame Heat Amps A

Controller Set Points and Defrost Times Verified? Y/N? Adjusted? Y/N?

Defrost term Checked After Pull Down Temp/Time?

## Mechanical Data Record

Note: All Readings Shall Be Entered at Fixture End of Cycle

Discharge Line Temp °F Liquid Line Temp °F

Tail Coil or Suction Line Temp

Adjust TXV? Y/N Open or Close ¼ Turns

Moisture Indicator Full? Y/N TD From Air Return To Air Supply At End Of Cycle °F

Scroll Operation Verified Y/N? LT Scroll Check Cap Tube for Vibration

Piping Checked For Vibration/Routing

Case Drain Verified?

*(Ensure all water leaves the Fixture)*

Sponge Installed If Serpentine?

*(To Assist Humid Conditions)*

Notes To OEM:

**LT Icon Case Set points TYPE 1, R448 Version, Carel Controller**

Parameter	Control Symbol	Type 1
Cabinet Set Temp.	°F st	-11
Control Differential	°F rd	7
Sensor shows the response speed	mins /3	6
Selection F	°F /5	1
Compressor & Fan start delay after start-up	mins C0	3
Min. time between consecutive compressor starts	mins C1	10
Min. compressor off time	mins C2	3
Interval between two defrosts	hr di	24
End defrost temperature	°F dt1	36
Max. defrost time	mins dp1	45
Drip down after defrost	mins dd	2
Temp. display during defrost		
d6=0 display message "d F" alternating with Temp. measured by the control probe	d6	0
Fan Run when the compressor stop	mins F2	0

**MT Icon Case Set points TYPE 1, R448 Version, Carel Controller**

Parameter	Control Symbol	Type 1
Cabinet Set Temp.	°F st	29
Control Differential	°F rd	13
Sensor shows response speed	mins /3	6
Selection F	°F /5	1
Compressor & Fan start delay after start-up	mins C0	3
Min. time between consecutive compressor starts	mins C1	10
Min. compressor off time	mins C2	3
Interval between two defrosts	mins di	6
End defrost temperature	mins dt1	50
Max. defrost time	°F dp1	45
Drip down after defrost	hours dd	2
Temp. display during defrost,		
d6=0 display the message "d F" alternating with the Temp. measured by the control probe	d6	0