

# FREEZE-UP CHECKLIST

**Freeze up checklist:** This form is required on any evaporator replacement and can be used to help diagnose a repeated freeze up condition. Make copies as needed and submit with the claim. Revised 11/09DM

**FREEZE UP CHECK LIST;  
COMPLETE WHEN DIAGNOSING A FREEZE-UP,  
REFRIGERANT LEAK, OR LOW CHARGE.**

MODEL# \_\_\_\_\_ SERIAL# \_\_\_\_\_

INSL DATE \_\_\_\_\_ FAIL DATE \_\_\_\_\_

- |  |                          |                          |
|--|--------------------------|--------------------------|
|  |                          | Single Stacked           |
| 1. Single unit or stacked equipment?   | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>YES</b>               | <b>NO</b>                |
| 2. Condition of float switch - Dirty float?<br>Are contacts opening when float is down?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Confirm...Is water pump always running during the freeze cycle.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Is thermistor properly mounted?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Is the TXV bulb tight and insulated?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Is water flow adequate to fill sump to overflow last 60 ~ 90 seconds of a normal harvest?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Is the water line sized properly? Small units up to KM-900 3/8" large units 1/2"? If not _____  | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Do some ice cubes remain on the evaporator plates when next freeze cycle starts?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. For stacked or side by side units...are separate water lines supplied?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. When evaporator plates are dry, do you see scale?<br>Scale color: _____<br>Date evaporators were last cleaned _____  | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Will thermostatic bin control cycle unit off within 6 seconds when in contact with ice?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Have you checked the bin control to assure the capillary is not touching a hot or cold source?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Are the evaporator separators, blue hooks and cube guides positioned properly?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Does mechanical bin control cycle the unit off in 6~15 seconds within the first 5 minutes of freeze?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Does the unit have any water filtration?<br>If so, list the following:<br>Filter brand: _____<br>Filter model: _____<br>Filter pressure gauge reading during fill _____psig.<br>Date filter last replaced: _____ |                          |                          |
| 16. Is water inlet valve screen clean?   | <input type="checkbox"/> | <input type="checkbox"/> |

17. Does water valve close completely when de-energized? i.e. does it leak by during freeze? **YES** **NO**  
[ ] [ ]
18. What is the inlet water pressure? \_\_\_\_\_ psig  
What is inlet water temperature? \_\_\_\_\_ °F
19. List the control board dip switch settings:  
1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ 5 \_\_\_\_\_  
6 \_\_\_\_\_ 7 \_\_\_\_\_ 8 \_\_\_\_\_ 9 \_\_\_\_\_ 10 \_\_\_\_\_
20. Is cube size consistent from inlet to the outlet of evaporator plates? (Full freeze pattern) [ ] [ ]
21. Is KM cube normal shape and size?  
If not describe: \_\_\_\_\_ [ ] [ ]
22. Was any refrigerant added to the unit? [ ] [ ]  
If so, how much? \_\_\_\_\_
23. Was the unit leak checked? [ ] [ ]  
Were any leaks found? [ ] [ ]  
If so, where? (Be specific)  
\_\_\_\_\_
24. What is the head pressure?  
Freeze \_\_\_\_\_ Harvest \_\_\_\_\_
25. What is the suction pressure?  
Freeze \_\_\_\_\_ Harvest \_\_\_\_\_
26. What is length of Freeze cycle \_\_\_\_\_  
Harvest cycle? \_\_\_\_\_
27. Ambient temperature at unit \_\_\_\_\_ °F, at cond. \_\_\_\_\_ °F
28. Water-cooled condenser outlet water temp \_\_\_\_\_ °F
29. Is the hot gas valve opening? [ ] [ ]
30. List model & manufacturer of bin: \_\_\_\_\_  
Or dispenser: \_\_\_\_\_
31. If non-Hoshizaki bin, what modifications have been made to bin control mounting? [ ] [ ]
32. Has stainless steel extension bracket been added to the bin control bracket? [ ] [ ]
33. **ICE DROP BATCH WEIGHT:** \_\_\_\_\_
34. Do ice cubes continue to fall after the freeze cycle starts?  
[ ] [ ]