REFRIGERATION SYSTEM OPERATIONAL ANALYSIS TABLE

S Model QuietQube Remote Condensing Unit Multiple Evaporator Ice Machines

This table must be used with charts, checklists and other references to eliminate refrigeration components not listed on the table and external items and problems, which can cause good refrigeration components to appear defective.

Operational Analysis	1	2	3	4
Ice Production	Air-Temperature Entering Condenser_____ Water Temperature Entering Ice Machine_____ Published 24 hour ice production_____ Calculated (actual) ice production_____ NOTE: The ice machine is operating properly if the ice fill patterns is normal and ice production is within 10% of charted capacity.			
Installation and Water System	All installation and water related problems must be corrected before proceeding with chart.			
Ice Formation Pattern Evaporators are numbered left to right viewed from the front of the ice machine Evaporator #1_____ Evaporator #2_____ Evaporator #3_____ Evaporator #4_____	Ice formation is normal	Ice formation is extremely thin on outlet of 1 or more evaporators -or- No ice formation on entire evaporator	Ice formation normal	Ice formation normal or No ice formation on entire evaporator
Safety Limits Refer to "Analyzing Safety Limits" to eliminate all non refrigeration problems	Stops on Safety Limit: **2**	Stops on Safety Limit: **1 or 2**	Stops on Safety Limit: **2**	Stops on Safety Limit: **1**
Freeze Cycle Discharge Pressure _____ _____ _____ 1 minute Middle End into cycle	If discharge pressure is High or Low refer to freeze cycle high or low discharge pressure problem checklist to eliminate problems and/or components not listed on this table before proceeding.			
Freeze Cycle Suction Pressure _____ _____ _____ 1 minute Middle End	If suction pressure is High or Low refer to freeze cycle high or low suction pressure problem checklist to eliminate problems and/or components not listed on this table before proceeding.			
	Suction pressure is **Normal or High**	Suction pressure is **Low or Normal**	Suction pressure is **Normal or High**	Suction pressure is **High**
Harvest Valve A leaking harvest valve gives an audible indication before ice fill pattern or machine performance is affected	**Audible flow** of refrigerant through any harvest valve during the freeze cycle	**No Audible flow** of refrigerant through any harvest valve during the freeze cycle	**No Audible flow** of refrigerant through any harvest valve during the freeze cycle	**No Audible flow** of refrigerant through any harvest valve during the freeze cycle
Evaporator Outlet Temperature Comparison Attach and insulate temperature probes between evaporator outlet and 90° elbow	Evaporator outlet temperatures are **within 10°F of each other**	Evaporator outlet temperatures are **NOT within 10°F of each other** or **Within 10°F of each other and above 32°F**	Evaporator outlet temperatures are **NOT within 10°F of each other**	Evaporator outlet temperatures are **within 10°F of each other**
Final Analysis Enter total number of boxes checked in each column.	**Harvest Valve Leaking**	**Low On Charge** **-Or-** **TXV Starving**	**Refrigerant Overcharge** **or** **TXV Flooding**	**Compressor**