DEFROST TIMECLOCK SET UP

Farm Electronics

Crop Storage Equipment

Off Cycle Defrost

Farm Electronics “Off Cycle” defrosting systems work in the following manner

A 24hr “peg” timeclock advances whenever the compressors are running. (Please note this timeclock does not represent the correct time of the day and need not be adjusted to this)

Once the allowable run time set has elapsed (Pegs pushed In) the compressor(s) are stopped and the DEFROST ON indicator lamp will illuminate. The Evaporator (Cooling) fans continue to run for the Defrost Period (Pegs pulled out). When this has elapsed the compressor(s) will be allowed to restart.

Defrost Clock Set UP

In this picture there are 6 Defrosts per 24hr of Refrig Run . Two Pegs are pulled out (30 mins) at 24, 4, 8, 12, 16. This is a total of 3 hrs of Defrost in 24hrs.

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In this picture there are 8 Defrosts per 24hrs of Refrig Run. Two Pegs are pulled out (30 mins) at 24, 3, 6, 9, 12, 15, 18, 21. This is a total of 4hrs of Defrost in 24hrs.

Regular Defrosts are more effective than long time gaps which will potentially allow clear ice to form on the Evaporator Coil. This ice takes much longer to melt. If any ice remains after a Defrost period it will quickly multiply as the Evaporator Coil loses efficiency to heat exchange. Note : The minimum Defrost Period should always be 30 minutes (2 peg)

If your coil becomes iced up it is vital that a Manual Defrost is carried out to remove ***all traces*** of ice. To do this turn the Main Refrig Switch to “Pump Down”. This will stop the compressor(s). Turn the Evaporator Fan(s) to “Manual” or “Continuous”.

De-Icing a coil can take up to 24hrs depending on how deep the ice has formed. Always check that the ice has completely cleared by removing the main inspection door from the side of the Cooler Unit. If no ice is visible on the inside of the coil it is now clear.

IMPORTANT

Failure to de-ice a coil can ultimately lead to catastrophic damage to the compressor(s) as a result of liquid refrigerant returning to the compressor(s). This dilutes and washes out the oil leading to seizure.