

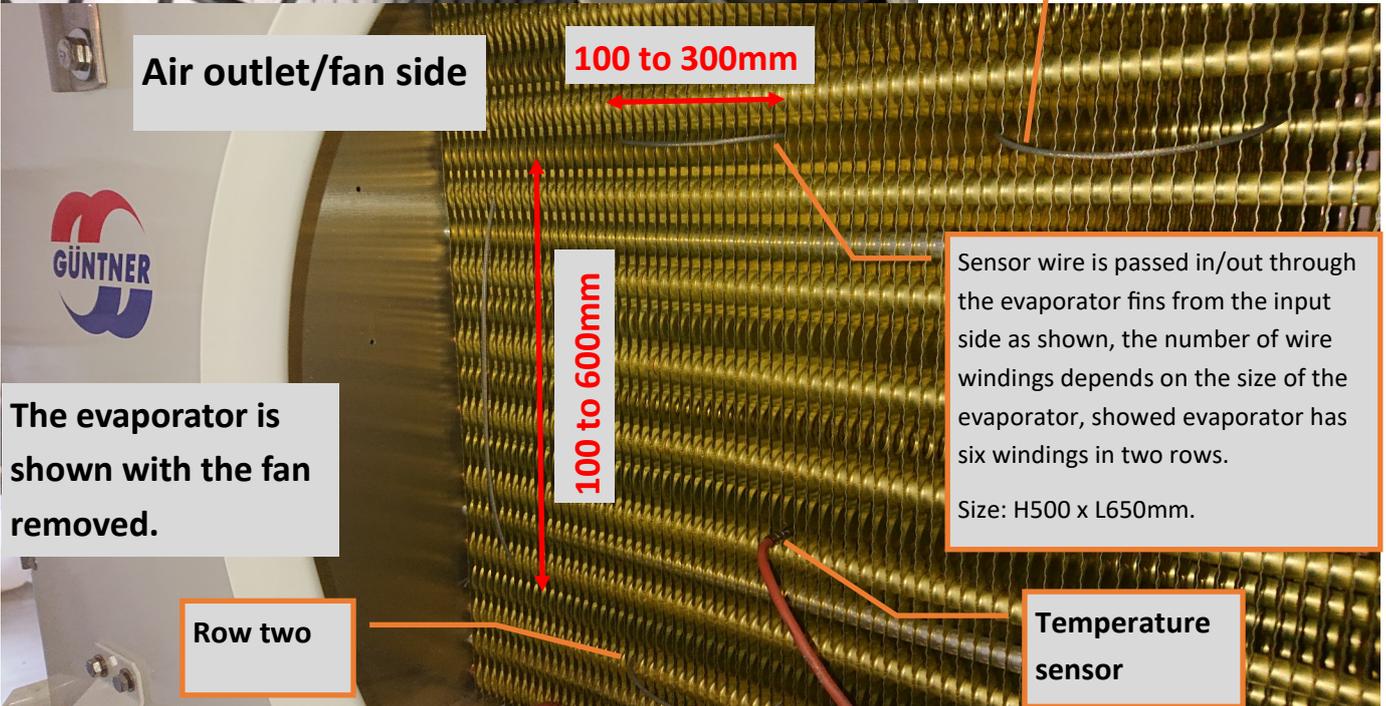
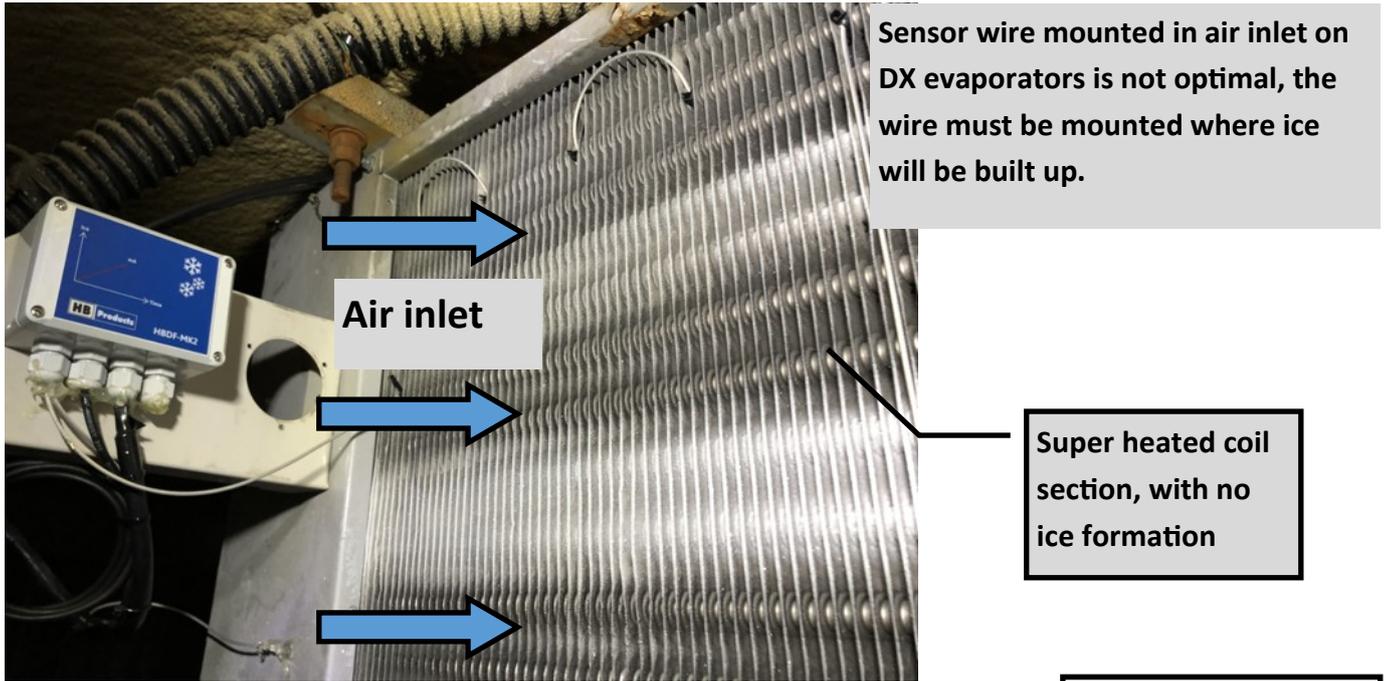
Bulletin

1. Success with the use of HBDF Defrost sensors depends very much on the type of evaporator and how the sensor is mounted. This bulletin shows how to mount the sensor wire on DX evaporators (direct expansion).
On DX evaporators, the first evaporator tubes are often placed in the air-inlet to ensure superheating, which means that there is not enough cooling effect to form ice build-up.
2. A new easy calibration method using a digital signal from from a master controller/PLC or a simple push botton switch makes it easy to perform a calibration without having to struggle with difficult access to evaporators which are often placed on a high location in the cold and frost stores. (The new calibration function is only valid from July 5th, 2019).

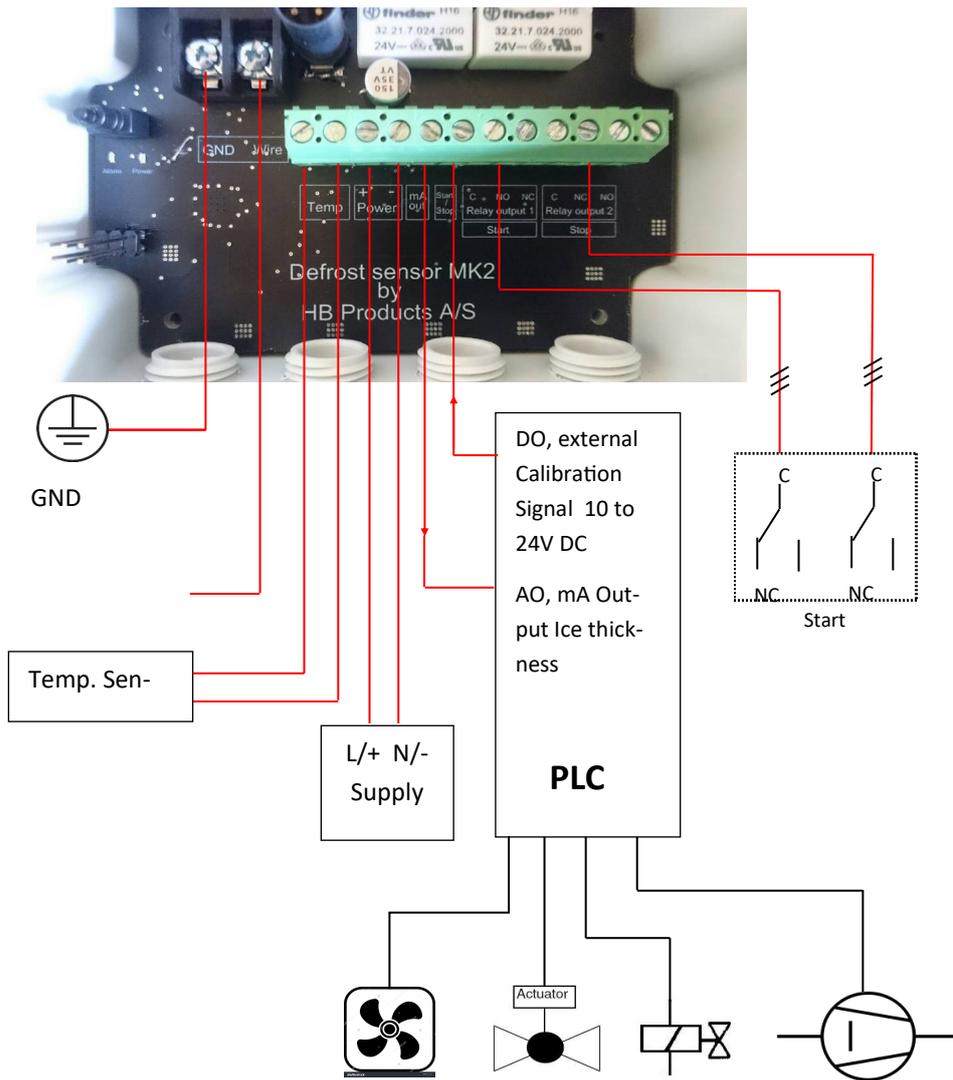
The sensor wire has to be mounted in the location where ice is built up.



Successful use of Defrost Sensors mounted on DX Evaporators

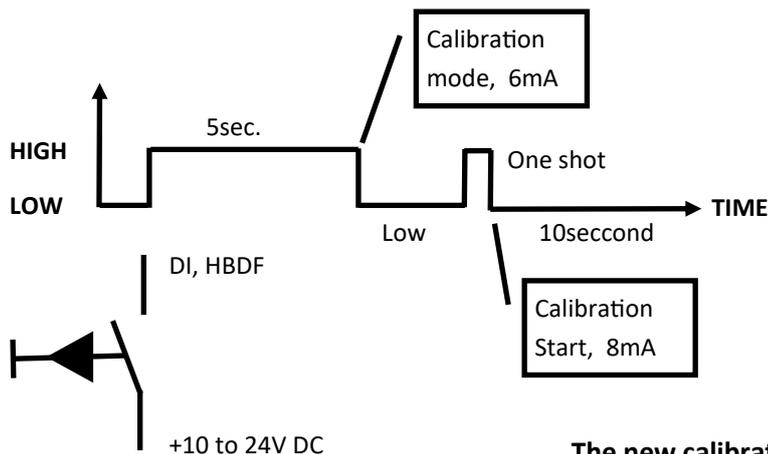


Calibration Method using a Digital Signal from a Master Controller/PLC or a Push Button Switch



Note: The calibration has to be performed with dry/frosted evaporator without ice build-up.

Digital Output "DO" from a PLC should be connected to digital input on HBDF-mk2. The signal should be programmed as shown, a simple push button switch could also be used:



Instruction:

1. Activate the DI for 5sec. to enter calibration mode, the mA output shows 6mA to indicate ready for calibration.
2. Start calibration by activating the DI once, the mA output indicate now 8mA, after 10sec. It's returns back to normally operation.

The new calibration function is only valid from July 5th, 2019.