

Abstract

The present invention relates to an apparatus for defrosting an evaporator in refrigeration system using infrared emitting diode sensor comprising: i) a frost detection sensor (50) configured to receive the frost sensing signal from the output part of a control processor (60), and to transmit the frost detection signal into the input part of a control processor (60), wherein the frost detection signal is generated by projecting infrared to the frost and projecting and receiving reflection-infrared from the frost; ii) a control processor (60) configured to convert the frost detection signal into digital signal in the signal converting part, to evaluate if the frost detection signal is higher than threshold value which is set from signal setting part (61), and to transmit the operation signal to the defroster (70) as well as the display signal to the signal display part (62); and iii) a defroster (70) configured to be operated depending on the signal from the control processor (60).