Instructions

Part # NFC-213

No Freeze Control

The No Freeze Control board, is a printed circuit board that senses when the coil in a HVAC unit is about to freeze up, due to a malfunction. Once the temperature drops to 29 degrees the unit is shut off and the blue light will flash, preventing the coil from freezing. Once the HVAC unit has been serviced by a licensed technician, simply press the reset button on the control, the blue light remains solid and the unit functions as normal.

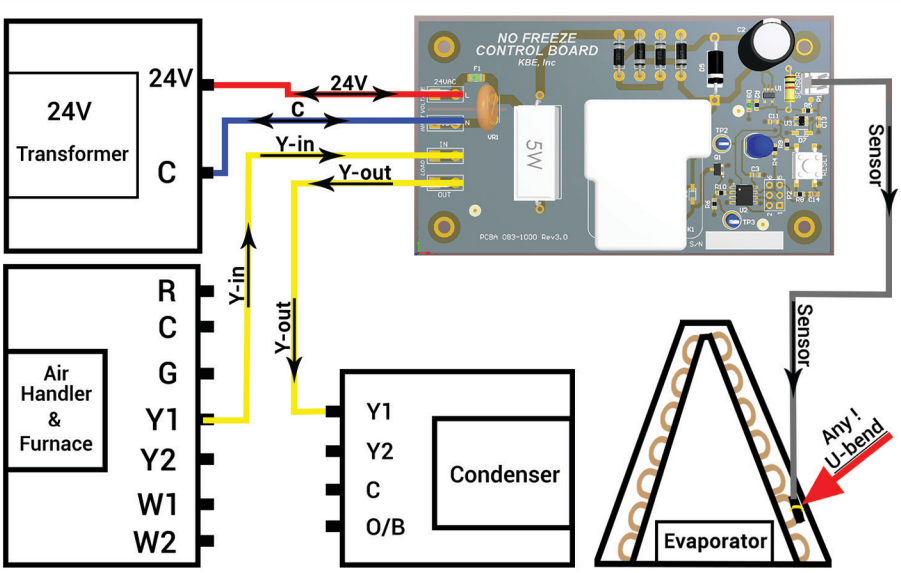
WARNING - Important Safety Instructions. Disconnect the power supply before carrying out any installation or maintenance work on this unit and associated components. This unit and associated components should only be installed by a competent person (i.e. a qualified HVAC technician). Electrical installation must be in accordance with appropriate statutory regulations.

Installing the No Freeze Control:

The unit is designed for mounting inside the HVAC unit. A template for mounting purposes is included.

1. Install board as far away as possible from line voltage and approximately 1.5in away from all components in the system. 2. Make sure all four standoffs are snapped into the four corner holes on the No Freeze Control board.

3. Apply the installation sticker in the control panel where it is to be installed. Use a 1/8" drill bit to drill the holes for connection and then press each corner into each drilled hole. (To remove the No Freeze Control Board, a needle nose plier must be used to pinch the end of the standoff to release from the installation holes). 4. (**Connecting the supply wires to power**) Connect the supplied red (power) and blue (common) wire to system [supply 24volt transformer]. 5. (**connecting the 24volts to the No Freeze Control Board**) Connect the red to (L) and blue to (n) on the No Freeze Control Board. 6. (**Breaking the low voltage to the condenser**) Disconnect the yellow thermostat wire and attach it to the supplied yellow wire using the grey wire nut, then connect the supplied wire to the control board (in). Then attach the second supplied yellow wire to the low voltage condenser wire using the supplied wire nut, then connect the wire to the control board (out). (see diagram) 7. (**Resupplying power**) **Installing the condenser wires on the No Freeze Control Board.** Run supply yellow wire from (out) to the system terminal block (y). At this point the blue light should begin to flash if everything is properly attached. 8. Attach temperature sensor on the evaporator coil with the supplied metal clip (**May need to slightly bend metal clip depending on coil tube size**), so the tip of the sensor is against the coil (**For best results, attach sensor to any U-Bend**). It must be aluminum or copper. Attach the other end to the No Freeze Board where it is labeled "sensor". **Once this is complete, press the reset button and the light should remain solid.**



Control Board Function

Indicator Light Solid

If system is above 29 degrees, the No Freeze Control Board will have a solid blue light. This indicates the system is functioning properly.

Indicator Light Flashing

If the light is flashing, the sensor is reading 29 degrees or less. This means the No Freeze Control has detected a freeze up and the system has been shut off. After the malfunction has been resolved, then by pressing the reset button the system is restored to normal operation. Be sure to run a test of the system to confirm.

Environment and Recycling

- Please help us to protect the environment by disposing of the packaging in accordance with national regulations for waste processing.

Recycling of Obsolete Appliances

– Appliances with this label must not be disposed of with general household waste. They must be collected separately and disposed of in compliance with local regulations.

TECHNICAL DATA

Voltage.....24V AC

Pollution Degree.....3

Dimensions.....L/4" H/1.5"W/2.25"

Mounting Holes.....1/8"

Purpose..Operating Sensing Control

Method of connection..Fixed Wiring

Type of wiring.....18 AWG, Copper

Ambient Conditions.....-20C to 60C

Control Type.....Type 1.C.F.K

Rated Impulse Voltage...Cat III 800V

The No Freeze Control is maintenance free.

See www.nofreezecontrol.com for further instructions and how to installation videos.