SERVICE AND APPLICATION NOTES

ACC-13-06, October 22, 2013

Equipment Interface Module Dehumidification Mode

AFFECTED PRODUCT

iComfort™ Equipment Interface Module (EIM), Catalog Number 99W23

ISSUE

The Equipment Interface Module will not reduce the indoor blower speed during dehumidification calls.

SHORT TERM SOLUTION

Update the system configuration as follows using the Thermostat Configuration Procedure shown below.

1. Configure the iComfort™ thermostat to use the Humiditrol Dehumidification Mode.
2. Select one of the desired Humiditrol Comfort Adjust settings - Maximum Overcooling (default), Midpoint Overcooling or Minimum Overcooling.
3. Install an outdoor air temperature sensor (catalog number X2658).

THERMOSTAT DEHUMIDIFICATION MODE CONFIGURATION PROCEDURE

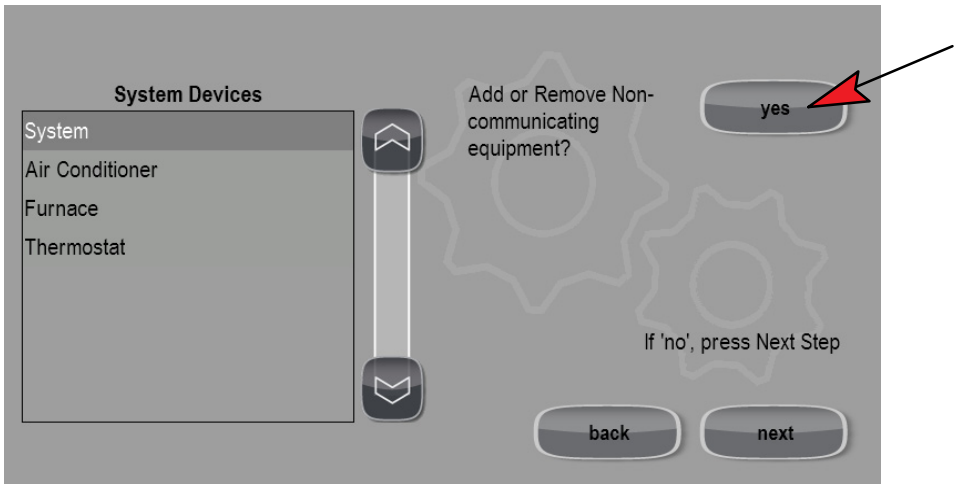
⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause personal injury, loss of life, or damage to property.

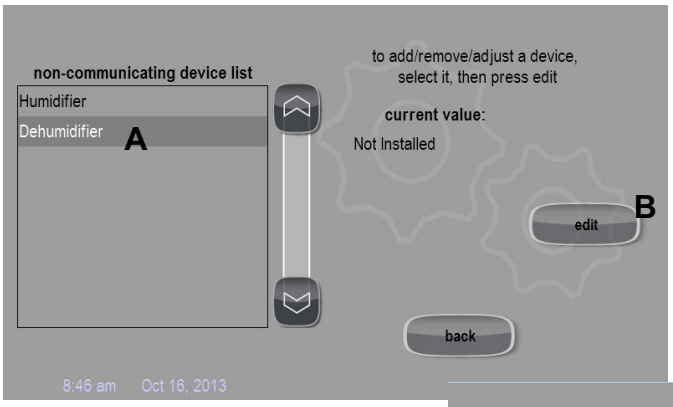
Installation and service must be performed by a licensed professional installer (or equivalent) or a service agency.

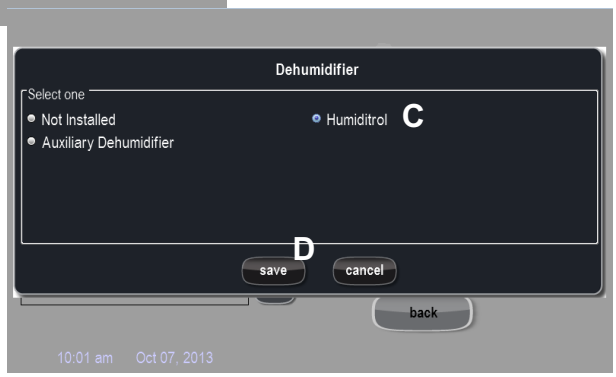
During initial commissioning of the thermostat, use the procedures provided in the thermostat installer setup guide to configure the parameters available on the system settings screen. Once completed, press the **next** button, then press **next** button again.

1. From the ***Add or Remove Non-communicating equipment?*** screen, press **yes**.

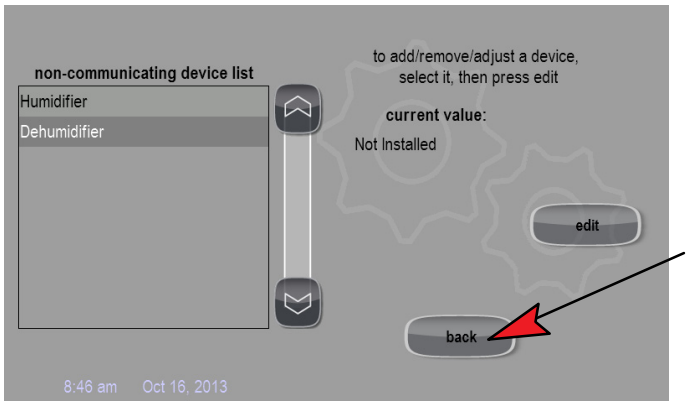


2. Perform the following:
   - **A** Select **Dehumidifier**.
   - **B** Press **edit.**
   - **C** Select **Humiditrol**
   - **D** Press **save**.

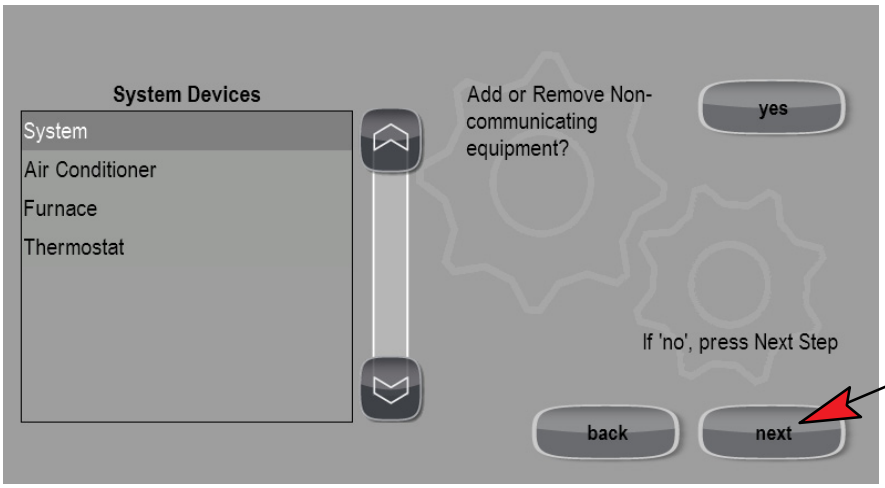




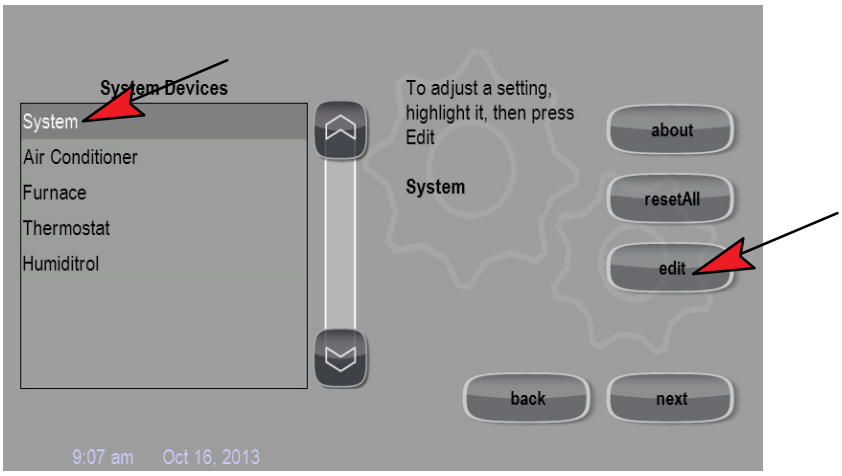
3. Press **back**.



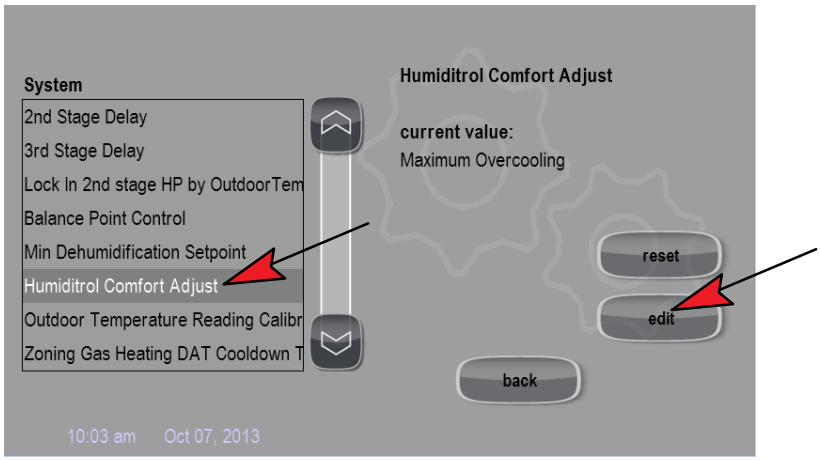
4. Press **next**.



5. Select **System** and press **edit**.

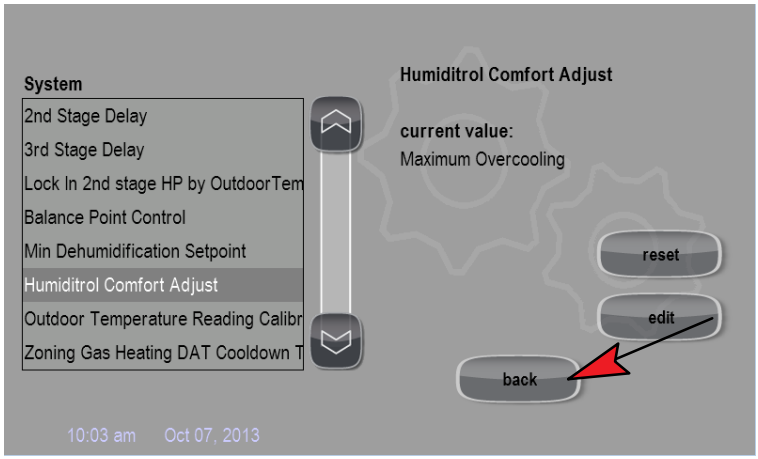


6. Scroll down the list and select **Humiditrol Comfort Adjust** setting and press **edit**.



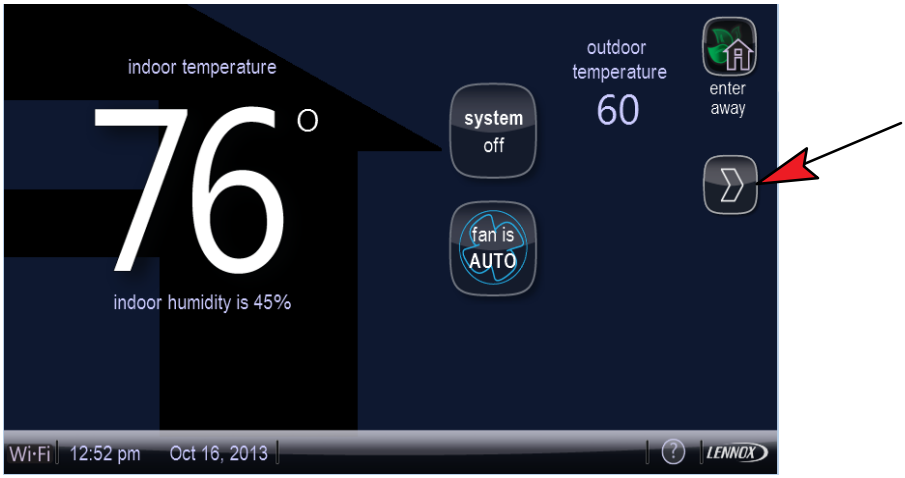
7. Select the desired over cool option (**Maximum Overcooling**, **Minimum Overcooling** or **Midpoint Overcooling**) and press **save**.

8. Press **back**.

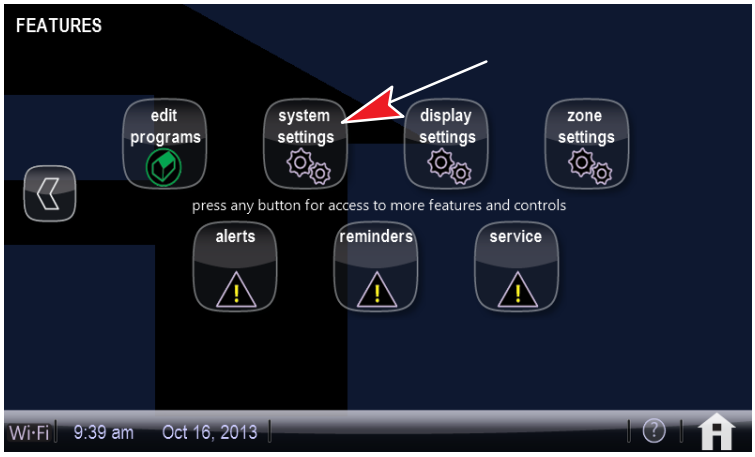


9. From the **System Devices** screen, press **next**, press **skip tests** and press **exit**.

10. From the **Home** screen, press the **arrow** along the right side of the screen to access the **Feature** screen.

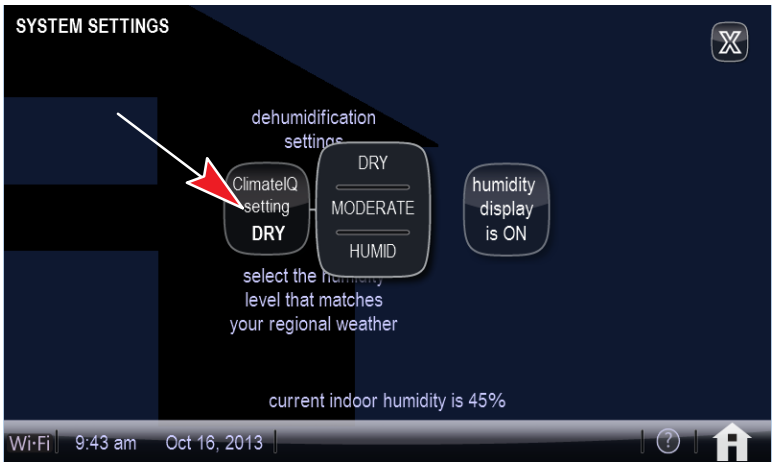


11. From the **Features** screen, press **system settings**.



12. Depending on specific outdoor unit model select either **A** or **B**:

A **ALL LENNOX DLSC OUTDOOR UNITS(SEE TABLE 1).** Press **Climate IQ** . Then select either **MODERATE** or **HUMID** to adjust the home interior comfort (humidity) level needs due to local weather conditions.



B **LENNOX AND OTHER BRAND NON-COMMUNICATING OUTDOOR UNIT (SEE TABLE 2)**. Press **de-humidify OFF (**Then select either **MEDIUM** or **HIGH** to adjust the home interior comfort (humidity) level needs due to local weather conditions.

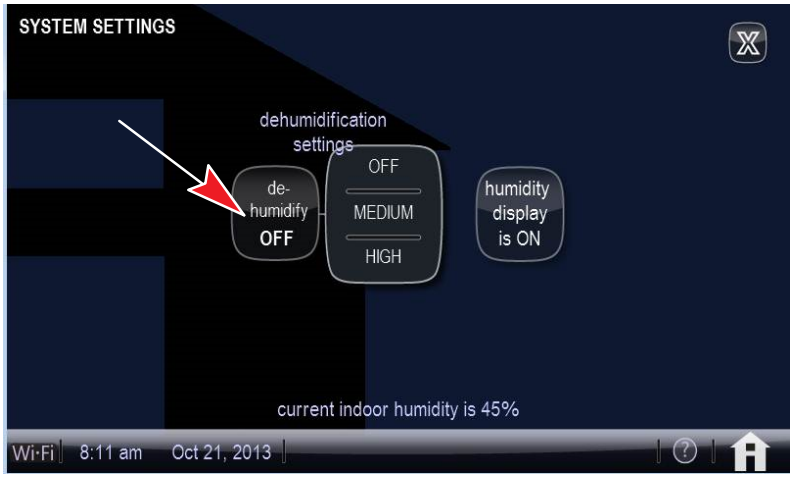


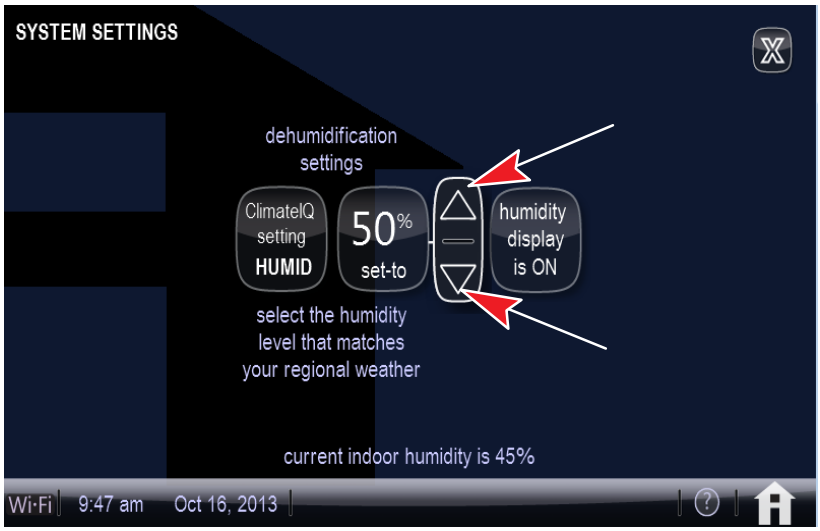
TABLE 1

Lennox Only Communicating Outdoor Units		
iComfort Wi-Fi® Software Verson 2.1 and later (if compressor operation is altered or not).	**iComfort Wi-Fi® Software Verson 2.1 and later** (if compressor operation is altered or not).	
XC17, XC21, XP17, XP17N, XP21 and XP21N	**XC/XP25**	
New Parameter Label	**Parameter Label**	**Resulting Operation**
Dry	Dry	Higher bower speed all cooling calls .
Moderate (basic)	Moderate	Standard blower speed.
Humid (precision)	Humid = Lowest Speed	Cooling calls with dehumidification.
	Humid = Medium Speed	Cooling call only.
	(See model Product Specification bulletin expanded ratings information for blower speeds)	

TABLE 2

Lennox and Other Brands of Non-Communicating Outdoor Units		
iComfort Wi-Fi® Software Version 2.02 (if compressor operation is altered or not).	**iComfort Wi-Fi® Software Verson 2.1 and later** (if compressor operation is altered or not).	
Original Parameter Label	**New Parameter Label**	**Resulting Operation**
Off	Off	Off
Basic	Medium	Standard blower speed
Precision	High	Low blower speed

13. Press the up or down button to the desired humidity set point.



LONG TERM SOLUTION

Release of the iComfort™ EIM-Heat Pump Module will correct the dehumidification functionality. Projected product release date is Second Quarter 2014.

EQUIPMENT INTERFACE MODULE FIELD-WIRING