



## ES Service Information

File In/With: N/A

SI0170

New 6-07

Equipment Affected: YPAL Mod "D" & "E"  
Packaged Rooftop Units

Software Update

### GENERAL

We are in the process of placing the latest revision of YPAL software into production. This version is identified as ECO.01.04. All controls shipped from our vendor are now programmed with this software version. However, we will continue to ship units with version ECO.01.03 until controls in inventory have been depleted.

The latest version of the software (ECO.01.04) will be available on the Johnson Portal on or before June 11, 2007. Refer to Service Information Letter SI0157 for the location of the software on the Portal and the procedure for downloading from the Portal and updating the unit.

If the software version installed in the unit is ECO.01.01 you will have to update to ECO.01.02 before updating to ECO.01.04. If version ECO.01.02 or ECO.01.03 is installed you can go immediately to version ECO.01.04.

The following summarizes changes contained in software version ECO.01.04

1. Corrected an issue with "DEW POINT RESET" control. The logic was reversed. The control would switch to the "SAT LOW SETPOINT" when the dew point temperature of the air under the floor was greater than the slab temperature. Logic was changed so the switch to the "SAT LOW SETPOINT" is made when the dew point temperature of the air under the floor is less than the slab temperature. This affects only FlexSys units with "DEW POINT RESET" enabled
2. The description of all the setpoints was changed from "LIMIT" to "SETPOINT" or "SETP".
3. A correction was made to the formula used to calculate the "HEATING CONTROL OFFSET" for staged gas heat. The offset will become greater but will be more inline with the temperature rise generated by each stage of heat. This change will affect the calculation used to determine how many stages to energize on an initial heat call. The change will result in fewer stages being energized on the initial call.
4. The staged gas heat staging requirements when the unit is in air tempering mode is revised. Old software allowed all the heat to stage on regardless of supply air temperature.
5. The "RETURN PRESSURE HIGH SETP" default value was changed to +0.15 "wc.
6. The display nomenclature was revised to match nomenclature in the revised IOM's, Form 100.50-NOM4 (507) and Form 100.50-NOM3 (507).
7. Exposed BACnet and Modbus points to show the actual CFM for IAQ flow measuring station 1 ("OA FLOW 1") and 2 ("OA FLOW 2") and the total flow ("OUTSIDE AIR FLOW TOTAL" instead of flow pressure.

8. Changed the upper limit for the “SAT HIGH SETPOINT” and the “MX SUPPLY AIR TEMP SETPOINT” to 75° F
9. We previously eliminated all warnings and faults for compressor system three when the unit only has two compressor systems but it would still turn on the fault output. This is corrected in this software revision.
10. Changes the outdoor airflow station transducer fault to a warning, ‘WRN-OA FLOW PRS 1’, “WRN-OA FLOW PRS 2”. If the warning is present the outdoor damper ventilation logic will revert to fixed minimum control instead of locking out the damper.
11. Changed logic for all air measuring station options to close the damper when ventilation operation is not active (UNOCCUPIED).
12. Corrects the software so the “TEK AIR FULL IAQ” option functions properly on the 106 – 130 ton units.

## **WARRANTY**

The description of the revisions listed above should be used to determine which units would benefit from a software update. Only those units experiencing an operating issues related to the above list should be updated.