

ACCESSORY KIT INSTALLATION INSTRUCTIONS

SINGLE ENTHALPY KIT MODEL 2EC0401

DUAL ENTHALPY KIT MODEL 2EC0402

FOR SINGLE PACKAGE UNITS 3 THROUGH 25 TONS

FOR UNIT MODELS: ZX04 THRU 14 AND ZY04 THRU 12

ZF078 thru ZF150, ZS06 thru ZS12, J06 thru 12ZF, ZH037 thru ZH150, ZUA3 thru ZU12, JA3 thru 12ZH, ZJ037 thru ZJ150, ZWA3 thru ZW12, JA3 thru 12ZJ, ZT037 thru ZT061, ZVA3 thru ZVA5, JA3 thru A5ZT, XP078 thru XP150, XA06 thru XA12, J06 thru 12XP, ZR037 thru ZR150, ZKA3 thru ZK12, JA3 thru 12ZR, ZJ180 thru 300, ZW-15 thru-25, J15 thru 25ZJ, ZF180 thru 300, ZS-15 thru-25, J15 thru 25ZF, ZR180 thru 300, ZK-15 thru-25, J15 thru 25ZR, XP180 thru 240, XA-15 thru -20 and J15 thru 20XP

GENERAL

Kit number 2EC0401 is used to convert dry bulb economizer units to single enthalpy economizer control. Kit number 2EC0402 is required to convert dry bulb economizer units to dual enthalpy control.

Table 1: CONTENTS OF KIT – SINGLE ENTHALPY

ITEM	PN	DESC	QTY
1	68470	Humidity Sensor	1
2	1066369	Wire OA Humidity 848	1
2a	1182638	Wire OA Humidity 848 ¹	1
3	1066370	Wire OA Humidity 849	1
3a	1182640	Wire OA Humidity 849 ¹	1
4	1066531	Wire OA Humidity 850	1
4a	1183182	Wire OA Humidity 850 ¹	1
5	1063783	Instructions, Single & Dual Enthalpy Field Installation	1
6	5803	Screws #10	2

1. For use in 15-25 ton units

Table 2: CONTENTS OF KIT – DUAL ENTHALPY

ITEM	PN	DESC	QTY
1	68470	Humidity Sensor	2
2	1066369	Wire OA Humidity 848	1
2a	1182638	Wire OA Humidity 848 ¹	1
3	1066370	Wire OA Humidity 849	1
3a	1182640	Wire OA Humidity 849 ¹	1
4	1066531	Wire OA Humidity 850	1
4a	1183182	Wire OA Humidity 850 ¹	1
5		Wire RA Humidity 823 w/ Jumper	1
6		Harness RA Humidity	1
7	1063783	Instructions, Single & Dual Enthalpy Field Installation	1
8	5803	Screws #10	2
9		Screws #10 Drillers	2
10		Grommet	1

1. For use in 15-25 ton units

TOOLS REQUIRED FOR INSTALLATION

A hex nut driver 5/16", a small flat screw driver and a Phillips screwdriver are the tools needed to install this kit. These tools are not supplied with this kit and must be supplied at time of installation.

INSTALLATION - SINGLE ENTHALPY

For Single Package Units 3 Through 25 Tons

1. Shut down the packaged unit.
2. Disconnect power following ALL safety procedures.
3. Remove the outside air hood. Keep the screws for installation at the end of this procedure.
4. Remove the filter access panel.
5. Attach the stripped end of the wires to the terminal strip on the back of the humidity sensor, 848/R to 24V, 849/W to OUT and 850/BK to COM.
6. Route wires through the opening in the plate in front of the actuator and beside the outside air damper.
7. Attach the humidity sensor to the plate beside the outside air damper. Do not use drillers.
8. Attach the quick connect end of the wires to the economizer controller mounted on the economizer, 849/W to OAH, 848/R to 24V~ (located beside OAH) and 850/BK to COM (located beside OAH).
9. If the DUAL ENTHALPY kit is being installed, proceed to the INSTALLATION - DUAL ENTHALPY section in these instructions. If only single enthalpy is being installed, proceed to step 10.
10. Install the filter access panel.
11. Install the outside air hood.
12. Connect power to the packaged unit following ALL safety procedures.
13. Start the packaged unit.

INSTALLATION - DUAL ENTHALPY

For Single Package Units 3 Through 25 Tons

1. Attach the stripped end of the wires to the terminal strip on the back of the humidity sensor, 823/R to 24V, 825/W to OUT and 824/BK to COM.
2. Install the enthalpy sensor in the return air. Use the self drilling screws to attach the sensor to the return air duct work.
3. Install the grommet into the hole beside the return air temperature sensor located on the economizer.
4. Route the return air humidity harness thru the grommet then thru cabinet to the control panel. Access panels in

the blower and control compartment will need to be removed to complete the routing.

5. Plug the harness into the control board at J4 - marked RAH/DCT PRS - located in the top right corner of the main unit control board in the control box. 824/BK should be at the RAH - position. 825/W should be at the RAH + position.
6. Plug wire 823/R into the location marked 24V FOR OUT-PUTS - located in the bottom right corner of the main unit control board in the control box.
7. Install any access panel that was removed to route the harness.
8. Return to step 10 in the instructions for installing single enthalpy.