**Electric Heat Accessory**

**Installation Instructions**

EHK05AKN/B, EHK07AKN/B, EHK10AKN/B, EHK15AKF/B, EHK20AKF/B, EHK15AHN, EHK18AHN, EHK09AKCN, EHK25AHCF, EHK30AHCF

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**Safety Labeling and Signal Words**

**DANGER, WARNING, CAUTION, and NOTE**

The signal words DANGER, WARNING, CAUTION, and NOTE are used to identify levels of hazard seriousness.

The signal word DANGER is only used on product labels to signify an immediate hazard. The signal words WARNING, CAUTION, and NOTE will be used on product labels and throughout this manual and other manuals that may apply to the product.

**DANGER** – Immediate hazards which **will** result in severe personal injury or death.

**WARNING** – Hazards or unsafe practices which **could** result in severe personal injury or death.

**CAUTION** – Hazards or unsafe practices which **may** result in minor personal injury or product or property damage.

**NOTE** – Used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

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**WARNING**

**ELECTRICAL SHOCK HAZARD.**

Failure to follow this warning could result in death and/or personal injury.

Installation or repairs made by unqualified persons can result in hazards to you and others. Installation must conform with local building codes or, in the absence of local codes, with National Electrical Code ANSI/NFPA 70-1996 or current edition.

The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

Shut OFF electric power at unit disconnect and/or service panel before beginning the following procedures.

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**INSTALLATION**

**INSTALL ELECTRIC HEATER ASSEMBLY**

**NOTE:** Ensure heater coils are not deformed or damaged during heater installation.

1. Make sure power to unit is off.
2. Remove blower access panel of fan coil unit.

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**CAUTION**

**UNIT DAMAGE HAZARD.**

Failure to follow this caution may result in property damage.

Before installation of heater, the black and yellow pigtail leads must be removed from the fan coil board or wire harness to prevent possible damage to the product. Electrical power will be provided to the board through the heater circuit plug.

3. Disconnect 2 power wires (black and yellow pigtail leads) from fan control board or wire harness (if applicable) and discard. Wires may be part of a plug assembly or attached to terminals L1 and L2. Remove cooling control plate from fan coil (if equipped). For 18kW, 24kW, and 30kW heaters, remove adapter plate. (See Figure 1)
4. Insert heater assembly into front of fan coil so that element rods engage holes in rear heat shield.
5. Attach heater control plate to fan coil using 2 screws provided. For 18kW, 24kW, and 30kW heater models, attach front of heater to fan deck using third screw. (See Figure 1)
Figure 1 Installing The Electric Heat Accessory

Table 1 – Accessory Heater Usage

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Use with Model Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHK05AKN</td>
<td>5 kW, single phase, no internal circuit protection</td>
<td>ALL</td>
</tr>
<tr>
<td>EHK05AKB</td>
<td>5 kW, single phase, with circuit breakers</td>
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<td>EHK07AKN</td>
<td>8 kW, single phase, no internal circuit protection</td>
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<td>EHK07AKB</td>
<td>8 kW, single phase, with circuit breakers</td>
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<td>EHK09AKCN</td>
<td>9 kW, supplied as single phase, field convertible to</td>
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<tr>
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<td>3-phase, no internal circuit protection</td>
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<td>EHK10AKB</td>
<td>10 kW, single phase, with circuit breakers</td>
<td>ALL</td>
</tr>
<tr>
<td>EHK15AKF</td>
<td>15 kW, single phase, with fuses</td>
<td>ALL</td>
</tr>
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<td>EHK15AKB*</td>
<td>15 kW, single phase, with circuit breakers</td>
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</tr>
<tr>
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<td>15 kW, 3-phase, no internal circuit protection</td>
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<td>18 kW, 3-phase, no internal circuit protection</td>
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<td>EHK30AHCF</td>
<td>30 kW, supplied as 3-phase, field convertible to</td>
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<td></td>
<td>single phase, with fuses</td>
<td></td>
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</tbody>
</table>

* EHK15AKB & EHK20AKB are not approved for use in Canada (must use fused heaters and certified single point wiring kit).
† 15kW & 20kW are not recommended for specific heat pump applications, see AIRFLOW DELIVERY (CFM)

Minimum CFM when using Electric Heat (motor speed Low except as noted)

<table>
<thead>
<tr>
<th>EBP, EBX, EBXX, EBW FEM, FSM, FSU Model Size</th>
<th>5</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>15</th>
<th>18</th>
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</table>

* Indicates High speed (Black wire) for 2-speed motor.
* Indicates Medium speed (Blue wire) for 3-speed motor or High speed (Black wire) for 2-speed motor
‡ Indicates Medium speed (Blue wire) for 3-speed motor or Low speed (Red wire) for 2-speed motor

STATIC PRESSURE CORRECTION FOR ELECTRIC HEATERS (EBP, EBW, EBX, EBXX, EBV, FEM, FSM, FSU, FVM)

Due to higher static pressure drop with additional electric heater elements in some application, an adjustment table to the static pressure is provided in the Installation and Operations Manual or the Product Specifications.
### AIRFLOW DELIVERY (CFM)

<table>
<thead>
<tr>
<th>EBV/FVM Model Size</th>
<th>Outdoor Unit Capacity (BTUH)</th>
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<th>0 - 10</th>
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* Airflow not recommended for heater/system size

NOTE: LO, NOM, and HI refer to AC/HP CFM ADJUST selection on the control board.

### HEAT PUMP MINIMUM CFM WHEN USING ELECTRIC HEAT (CFM)

<table>
<thead>
<tr>
<th>EBV/FVM Model Size</th>
<th>Outdoor Unit Size</th>
<th>Heater Size kW</th>
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### A/C MINIMUM CFM WHEN USING ELECTRIC HEAT (CFM)

<table>
<thead>
<tr>
<th>FVM Model Size</th>
<th>Heater Only</th>
<th>5</th>
<th>8, 9, 10</th>
<th>15</th>
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</tr>
</tbody>
</table>

NOTES:
1. Heater Only—Air conditioner with electric heater application.
2. These airflows are minimum acceptable airflows as UL listed. Actual airflow delivered will be per airflow delivery chart for Electric Heating Modes.
ATTACH FUSE BOX OR CIRCUIT BREAKER BOX

1. For 15kW and 20kW fused models:
   After installing heater assembly, attach fuse assembly to side of fan coil unit by inserting fuse box tab between insulation and to left side of unit and fan deck. Mount front of assembly to side flange with two (2) screws provided. On fan coil units size 4200 and larger, remove wire tie that shortens wire length between heater and fuses. Fuse cover is closed by engaging dimples in fuse box. (See Figure 2)

2. For 24kW and 30kW fused models:
   Fuse assembly is mounted on heater. Be sure fuse cover is closed by engaging clip latch on unit top panel. (See Figure 1)

**WARNING**

ELECTRICAL SHOCK.
Failure to follow this warning could result in death and/or personal injury.
Close fuse box before power is turned to ON position.

3. For 5kW through 20kW circuit breaker models:
   After installing heater assembly, attach circuit breaker assembly to unit with screws provided. (See Figure 3) On fan coil units size 4200 and larger, remove wire tie that shortens wire length between heater and circuit breaker assembly to allow mounting of circuit breaker assembly. (See Figure 3)

4. Circuit breaker models require installing a bezel in unit door to provide safe access to circuit breakers. Bezel mounts on inside of blower door. (See Figure 4)

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**Figure 2**
Fused Model Installation

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**Figure 3**
Circuit Breaker Model Installation

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**A. Wire 24V Control Systems**

1. Connections to unit
   Use No. 18 AWG color-coded, insulated (35 Deg. C minimum) wire to make low-voltage connections between thermostat, fan coil unit, and outdoor unit. If thermostat is located more than 100 ft. from unit (as measured along the low-voltage wire), use No. 16 AWG color-coded, insulated (35 Deg. C minimum) wire. All wiring must be separated from line voltage power leads. Refer to outdoor unit wiring instructions for additional wiring procedure recommendations.

2. Transformer
   Transformer is factory wired for 230V operation. For 208V applications, disconnect black wire on transformer 230V terminal and reconnect it to 208V terminal. (See Figure 5) The secondary circuit of transformer is protected by a 5-amp fuse mounted on fan control board.
3. Heater staging

The units are shipped circuited for single stage operation. The heat can be staged either through an indoor thermostat or by using an outdoor thermostat. When two stages are desired, cut W3 at the W2 wire nut, strip and reconnect per wiring staging layout in Installation Instructions for fan coils.

a. The 5kW, 8kW, and 10kW heaters are single stage only.
b. The 9kW and 15kW heaters are adaptable for two stage operation.
c. The 18kW, 20kW, 24kW, and 30kW heaters are adaptable for three stage operation.

4. Rectifier and Time Delay Boards

Each heater element is controlled by a relay mounted on the heater panel. The relay has a 24V DC coil. Each relay has a small rectifier board attached directly to relay coil terminals. The rectifier board converts incoming 24V AC control signal to DC. Some heaters may have up to three relays. The second and/or third relay rectifier board also has a time delay feature and a small jumper wire built into it. With the jumper uncut, the time delay allows the second stage heat to be energized approximately five (5) seconds after the first stage. On 18kW, 24kW, and 30kW heaters, the third stage relay board jumper is cut at factory. This provides an eight (8) second delay after first stage relay closes.

c. The 9kW heater is factory wired for single supply circuit, single phase. To convert heater to single supply circuit, three phase:

1. Disconnect blue wire from limit switch (LS3). Cut, strip, and connect to field wire L3.
2. Disconnect yellow wire from LS1 and connect to LS3.
3. Disconnect blue wire from relay 2, terminal 2 and connect to LS1.

2. Circuit breaker heaters: (See Figures 7 and 9)

a. The 5kW through 10kW heaters can be wired for single-supply circuit only.
b. The 15kW and 20kW heaters can be wired for dual-supply circuits only.

3. Fused heaters: (See Figures 8, 12, 13, and 14)

a. The 15kW and 20kW heaters can be wired for single or dual supply circuits. Single supply circuit wiring requires a factory authorized, single-point adapter kit.
b. The 24kW and 30kW heaters can be wired for single or multiple supply circuits. Heaters are factory wired for single circuit three phase. To convert heaters to single circuit single phase, disconnect yellow lead from L3 and connect to L1. Disconnect black lead from L3 and connect to L2. To convert heaters to multiple supply circuit single phase, remove and discard leads between single circuit terminal block and fuse block. Remove and discard single circuit terminal block. Attach L1 through L6 power leads as indicated on label next to fuse block.

C. Ground Connections

**WARNING**

**ELECTRICAL SHOCK.** Failure to follow this warning could result in property damage and/or death.

According to NEC, ANSI/NFPA 70, and local codes, cabinet must have an uninterrupted or unbroken ground to minimize personal injury if an electrical fault should occur. The ground may consist of electrical wire or metal conduit when installed in accordance with existing electrical codes. (See Ground/Conduit Note below.)

**NOTE:** Use UL-listed conduit and conduit connector for connecting supply wire(s) to unit to obtain proper grounding. If conduit connection uses reducing washers, a separate ground wire must be used. Grounding may also be accomplished by using grounding lugs provided in control box.

1. For unprotected or single circuit heaters, 1 equipment ground connection is provided on fan coil unit. (See Figure 1 or 2)
2. For 15kW and 20kW circuit breaker heaters, an additional ground lug is provided on circuit breaker mounting bracket for dual circuit grounding. (See Figure 3)
3. For 15kW and 20kW fused heaters, an additional ground lug is provided on fuse mounting bracket for dual circuit grounding. (See Figure 2)
4. For 24kW and 30kW fused heaters, two (2) additional ground lugs are provided for single phase, multi circuit wiring. (See Figure 1)
D. FAN SPEED SELECTION

FSM, FSU, EBP, EBX, EBXX & EBW Motor Speed Selection

1. Speed tap selection is done at fan relay. To change motor speeds, disconnect fan lead on relay and replace with motor speed tap desired. Save insulating cap and place on motor lead that was removed from relay. (See Figure 15) Refer to table below for further clarification of speed tap selections.

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<th>Motor Speed Tap</th>
<th>Wire Color</th>
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<td>Common</td>
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<tr>
<td>High</td>
<td>Black</td>
</tr>
<tr>
<td>Medium</td>
<td>Blue (Factory Selected)</td>
</tr>
<tr>
<td>Low</td>
<td>Red (Blue on 2 speed models)</td>
</tr>
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</table>

**IMPORTANT!**

For FEM Motor Speed Selection, refer to installation instructions of the FEM fan coil.

For FVM, Variable Motor Speed Selection, refer to installation instructions of the FVM fan coil.

For EBV Motor Speed Selection, refer to installation instructions of the EBV fan coil.

CONVERSION OF CIRCUIT BREAKER FOR DOWNFLOW APPLICATIONS

1. Tag and disconnect factory wiring from terminals on circuit breaker(s).
2. Pull white plastic release tab on the bottom of circuit breaker straight out to release circuit breaker from bracket. (See Figure 16)
3. Remove quick connect adapters from factory side of breaker(s). Reinstall adapters on other end of breakers(s). Be sure adapter is located between lug screw and plate. Torque lug screw to 30−in−lb.
4. Rotate breaker 180 degrees from its original position and reinstall in bracket. Slide breaker slot into sheet metal tab and snap breaker into place. Make sure both tabs engage breaker. Reconnect wiring on opposite end. Make sure wires are positioned as before.
5. Remount circuit breaker bracket into unit so that the switch will be in UP position when ON.

ATTACH WIRING DIAGRAM AND RATING LABEL

Attach heater rating label included with kit over existing electrical information label located on front access panel of fan coil. (See Figure 17) If kit contains multiple rating labels, ensure correct label is applied (check phase and supply circuits).

VERIFY INSTALLATION

After completion of heater installation, check wiring to ensure tightness and that proper connections and routings have been made. Ensure all electrical covers are in place and proper labels have been applied. Reinstall blower access panel before turning unit power on.

ADJUSTING THERMOSTAT ANTICIPATOR

Set the heat anticipator of the thermostat to the proper value. Each stage of heat is approximately 0.08 amps per relay. See instructions provided with the thermostat before making this adjustment.

<table>
<thead>
<tr>
<th>Heater Model (kW)</th>
<th>Anticipator Setting (Approximate Amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5, 8, 10 (Single Stage)</td>
<td>.08</td>
</tr>
<tr>
<td>9, 15 (Two Stage)</td>
<td>.16</td>
</tr>
<tr>
<td>18, 20, 24, 30 (Three Stage)</td>
<td>.24</td>
</tr>
</tbody>
</table>

Figure 5  Connection of Transformer

Figure 6  5, 8, 9, and 10 kW Non−fused Heaters

(9kw is field convertible to 3−phase. See Procedure 3. B. 1. c.)
Specifications are subject to change without notice
Figure 13 24 and 30 kW Heaters

Field Power Wiring

L1
L2

Field Ground Wiring ———— Ground lug

(Single Phase, Single Supply Circuit - Field Modified)

Figure 14 24 and 30 kW Heaters

L5
L3
Field Power Wiring

L1
L6
L2

L4

Field Ground Wiring ———— Ground lug

Field Ground Wiring ———— Ground lug

Field Ground Wiring ———— Ground lug

(Single Phase, Multiple Supply Circuits - Field Modified)

Figure 15 Motor Speed Tap and Fan Relay

Figure 16 Conversion of Circuit Breaker

RELEASE TAB

Figure 17 Heater Rating Label Location

UNIT RATING LABEL ON DOOR

HEATER LABEL FROM KIT
### FIELD MULTIPLE WIRING OR 24 AND 30 KW SINGLE PHASE

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EHK25AHCFT</td>
<td>24</td>
<td>1</td>
<td>28.9/32.0</td>
<td>28.9/32.0</td>
<td>28.9/32.0</td>
<td>44.7/48.5</td>
<td>36.2/40.0</td>
<td>36.2/40.0</td>
</tr>
<tr>
<td>EHK30AHCFT††</td>
<td>30</td>
<td>2.25</td>
<td>36.2/40.0</td>
<td>36.2/40.0</td>
<td>36.2/40.0</td>
<td>53.8/58.5</td>
<td>45.3/50.0</td>
<td>45.3/50.0</td>
</tr>
</tbody>
</table>

**Notes:**
- Copper wire must be used. If other than uncoated (non-plated), 75°C ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the National Electric Code (ANSI/NFPA 70).
- When used with Fan Coil model sizes 2400, 3600.
- When used with Fan Coil model sizes 4200, 4800.
- Includes blower motor amps of largest Fan Coil used with heater.
- Supplied as single phase, field convertible to 3-phase.
- Supplied as 3-phase, field convertible to single phase, single or multiple supply circuits.
- Length shown is as measured one way along wire path between unit and service panel for a voltage drop not to exceed 2%.
EHK05AKN/B, EHK07AKN/B, EHK10AKN/B
N = NON–FUSED, B = CIRCUIT BREAKER

Specifications are subject to change without notice.

EHK05AKN/B, EHK07AKN/B, EHK10AKN/B
N = NON–FUSED, B = CIRCUIT BREAKER

NOTES:
1. Use Copper Wire (75°C Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With NEC And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. Use 60 Amp class K Fuses Only, For Replacement.

EHK15AKF/B
F = FUSED, B = CIRCUIT BREAKER

NOTES:
1. Use Copper Wire (75°C Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With NEC And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. Use 60 Amp class K Fuses Only, For Replacement.
**EHK20AKF/B**

**F = FUSED, B = CIRCUIT BREAKER**

**NOTES:**
1. Use Copper Wire (75°C Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With NEC And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. 1 Phase Heaters Are Shown Wired For Single Supply Circuit.
5. Use 60 Amp Class K Fuses Only, For Replacement.

**EHK15AHN**

**THREE PHASE, N = NON–FUSED**

**NOTES:**
1. Use Copper Wire (75°C Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With NEC And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. Use 60 Amp Class K Fuses Only, For Replacement.
EHK18AHN
THREE PHASE, N = NON–FUSED

NOTES:
1. Use Copper Wire (75ºc Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With Nec And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. 1 Phase Heaters Are Shown Wired For Single Supply Circuit.
5. Use 60 Amp Class K Fuses Only, For Replacement.

EHK09AKCN (Field Convertible to three phase.)
N = NON–FUSED

NOTES:
1. Use Copper Wire (75ºc Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With Nec And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. Use 60 Amp Class K Fuses Only, For Replacement.

Specifications are subject to change without notice
NOTES:
1. Use Copper Wire (75º c Min) Only Between Disconnect Switch and Unit.
2. To Be Wired in Accordance With NEC And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. 1 Phase Heaters Are Shown Wired For Single Supply Circuit.
5. Use 60 Amp Class K Fuses Only, For Replacement.

EHK25AHCF, EHK30AHCF (Field Converted to single phase, see below.)

WIRING DIAGRAM FOR HEAT ACCESSORIES

EHK25AHCF, EHK30AHCF (Shipped three phase, see below.)

F = FUSED

International Comfort Products, LLC
Lewisburg, Tennessee 37091 USA

Specifications are subject to change without notice