### FAN COILS
### ACCESSORY ELECTRIC HEATERS

### WIRING DIAGRAMS

<table>
<thead>
<tr>
<th>FIG.</th>
<th>FIELD INSTALLED HEATER MODEL</th>
<th>FB4C</th>
<th>FE4A</th>
<th>FH4C</th>
<th>FV4C</th>
<th>FX4D</th>
<th>FY5B</th>
<th>PF4MA</th>
<th>PF4MB</th>
<th>LABEL</th>
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<tbody>
<tr>
<td>1</td>
<td>KFCEH0401N03</td>
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<th>FIG.</th>
<th>FIELD INSTALLED HEATER MODEL</th>
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<td>9</td>
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<tr>
<td>10</td>
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### FAN COIL WITH RBC X–13 MOTOR

<table>
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<th>FIG.</th>
<th>FIELD INSTALLED HEATER MODEL</th>
<th>FB4C</th>
<th>FX4D</th>
<th>LABEL</th>
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<td>11</td>
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<td>31</td>
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<td>FIG.</td>
<td>FIELD INSTALLED HEATER MODEL</td>
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<td>FX4D</td>
<td>LABEL</td>
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<td>MKFCEH3001F15</td>
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**FAN COIL WITH COOLING ONLY CONTROL**

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<tr>
<th>FIG.</th>
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<th>SIZE</th>
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<tr>
<td>15</td>
<td>FV4C</td>
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<td>FE4A/FE5A</td>
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<td>17</td>
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<td>17</td>
<td>FH4C</td>
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<td>18</td>
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<tr>
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<td>PF4MNA/B</td>
<td>19,25,31,37,43,49,61</td>
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<tr>
<td>19</td>
<td>FB4C/FX4D (BOM)</td>
<td>18–61</td>
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**ELECTRIC HEATERS**

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<thead>
<tr>
<th>FIG.</th>
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<th>LABEL</th>
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<tr>
<td>20</td>
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<td>20</td>
<td>KFDEH1001D11</td>
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<td>324494–101</td>
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<tr>
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<td>21</td>
<td>KFEEH0301D11</td>
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<th>FIG.</th>
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<th>FFMA</th>
<th>LABEL</th>
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<tr>
<td>22</td>
<td>EHK2–05B</td>
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<td>22</td>
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Fig. 1 - 328613-101

Fig. 2 - 328606-101
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.
5. Use 1 Phase Heaters Are Shown Wired For Single Supply Circuit.

LEGEND
CB CIRCUIT BREAKER
FU LINE FUSE
GND EQUIPMENT GROUND
HVTB HIGH VOLTAGE
IDR IDENTIFIER RESISTOR
REC RECITIFIER
TDR TIME DELAY RECITIFIER
FIELD POWER WIRING
MARKED TERMINAL
PLUG AND RECEPTACLE

Fig. 3 - 328605-101

Fig. 4 - 328604-101
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.

FIELD POWER WIRING SEE RATING PLATE FOR VOLTS & HERTZ SEE NOTE #1
DISCONNECT PER NEC

RELAY 1
RELAY 2
RELAY 3
RELAY 4
RELAY 5
RELAY 6

LEGEND
GND
EQUIPMENT GROUND
HTR HEATER
REC RECITIFER
TDR TIME DELAY RECITIFER
FIELD POWER WIRING
MARKED TERMINAL
PLUG AND RECEPTACLE

Fig. 5 - 328614-101

Fig. 6 - 328615-101
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.
NOTES:

1. Use copper wire (75°C min.) only between disconnect switch and unit.
2. To be wired in accordance with N.E.C. and local codes.
3. If any of the original wire, as supplied, must be replaced, use the same or equivalent type wire.
4. Replace low voltage fuse with no greater than 5 amp fuse.
5. (3) speed motor shown. Optional (2) speed motor uses HI (BLK) and LOW (BLU or RED).
6. Smaller heaters will have fewer components.
7. Connect R to R, G to G, etc., see outdoor instruction for details.

Fig. 9 - 328205-101
NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND
NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE

NOTES:
1. Use copper wire (75°C min.) only between disconnect switch and unit.
2. To be wired in accordance with N.E.C. and local codes.
3. If any of the original wires, as supplied, must be replaced, use the same or equivalent type wire.
4. Replace low voltage fuse with no greater than 5 amp fuse.
5. Use 60 amp class K fuses only, for replacement.
6. (3) speed motor shown. Optional (2) speed motor uses HI (BLK) and LOW (BLU or RED).
7. Connect R to R, G to G, etc., see outdoor instruction for details.
8. If wire crimp is removed an emergency heat relay is required. (See outdoor thermostat instructions).

MINIMUM MOTOR SPEED SELECTION

<table>
<thead>
<tr>
<th>MOTOR SPEED AT 15 KW</th>
<th>LO</th>
<th>LO</th>
<th>LO</th>
<th>LO</th>
<th>LO</th>
<th>LO</th>
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<tbody>
<tr>
<td>FAN COIL SIZE</td>
<td>010</td>
<td>020</td>
<td>030</td>
<td>040</td>
<td>042</td>
<td>048</td>
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Fig. 10 - 328206-101
NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND

CAUTION:
NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A L' A TERRE

NOTES:
1. Use copper wire (75ºC min.) only between disconnect switch and unit.
2. To be wired in accordance with N.E.C. and local codes.
3. If any of the original wire, as supplied, must be replaced, use the same or equivalent type wire.
4. Replace low voltage fuse with no greater than 5 amp fuse.
5. To change speed tap, move blue wire to desired terminal.
6. Smaller heaters will have fewer components.
7. Connect R to R, G to G, etc.; see outdoor instruction for details.

Fig. 11 - 335975-101
The compartment must be closed except for servicing.

Schematic Diagram:
- **Field Power Wiring**: See rating plate for volts & hertz.
- **Disconnect per NEC**: See note #1.
- **Internal Protection**: May be either fuses or circuit breakers.

Component Arrangement:
- **System Transformer**: 400VA
- **Fan coil unit**: 140VA
- **Remainder available**: 32V VA

Notes:
1. Use copper wire (25C min.) only between disconnect switch and unit.
2. To be wired in accordance with N.E.C. and local codes.
3. If any of the original wire, as supplied, must be replaced, use the same or equivalent type wire.
4. Replace low voltage fuse with no greater than 5 amp fuse.
5. To change speed tap, move blue wire to desired terminal.
6. Smaller heaters will have fewer components.
7. Connect R to R, G to G, etc., see outdoor instruction for details.
8. See airflow tables for tap usage.

Fig. 12 - 336923-101

336923-101 REV.A
Minimum Motor Speed Tap Selection
For Electric Heater

<table>
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<th>MODEL SIZE</th>
<th>HEATER SIZE</th>
<th>KW</th>
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<td>9</td>
<td>18</td>
</tr>
<tr>
<td>18</td>
<td>10</td>
<td>MED *</td>
</tr>
<tr>
<td>24</td>
<td>15</td>
<td>MED *</td>
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<td>MED</td>
<td>MED</td>
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<tr>
<td>70</td>
<td>MED</td>
<td>MED</td>
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**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. Replace Low Voltage Fuse With No Greater Than 5 Amp Fuse.
5. (3) Speed Motor Shown Optional (2) Speed Motor Uses HI (BLK) And LOW (BLUE or RED).
6. Connect R To R, G To G, Etc. See Outdoor Instruction For Details.

* - MED speed on 3 speed motors and HI speed on 2 speed motors.
‡ - MED speed on 3 speed motors and LO speed on 2 speed motors.

Fig. 17 - 328964-101
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. Replace Low Voltage Fuse With No Greater Than 5 Amp Fuse.
5. Connect R To R, G To G, Etc. See Outdoor Instruction For Details.
6. To change speed tap, move blue wire to desired terminal.
7. See airflow tables for tap usage.

NOTES

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LEGEND

- **C**: COMMON
- **F**: LOW VOLTAGE FUSE
- **FM**: FAN MOTOR
- **GND**: EQUIPMENT GROUND
- **RECP**: RECEPTACLE
- **SPT**: FAN SPEED TAP LOCATION
- **TRAN**: TRANSFORMER
- **UNMARKED TERMINAL**
- **MARKED TERMINAL**
- **FIELD POWER WIRING**
- **PLUG AND RECEPTACLE**

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336228-101 REV. A

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Fig. 18 - 336228-101
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. Replace Low Voltage Fuse With No Greater Than 5 Amp Fuse.
5. Connect R To R, G To G, Etc. See Outdoor Instruction For Details.
6. To Change Speed Tap, Move Blue Wire To Desired Terminal.
7. See Airflow Tables For Tap Usage.
8. Factory wires may be present. DO NOT USE.
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. Replace low voltage fuse with no greater than 5 AMP fuse.
5. (2) Speed Motor uses HI (BLK) and LOW (RED).
6. Smaller heaters will have fewer components.
7. Connect R to R, G to G, etc., see outdoor instructions for details.
8. Cooling controls wiring not used with electric heaters.

This compartment must be closed except when servicing.

MINIMUM MOTOR SPEED SELECTION

<table>
<thead>
<tr>
<th>FAN COIL SIZE</th>
<th>MOTOR SPEED ONE HTR</th>
<th>MOTOR SPEED TWO HTR</th>
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<tbody>
<tr>
<td>018</td>
<td>LO LO LO</td>
<td>LO LO LO</td>
</tr>
<tr>
<td>024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030</td>
<td></td>
<td></td>
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</table>

Legend:
- CAP: CAPACITOR
- COM: COMMON
- DISC: DISCONNECT
- F: FUSE
- FM: FAN MOTOR
- FAN MOTOR THERMALLY PROTECTED
- FIELD POWER WIRING
- FR: PCB FAN RELAY
- GND: EQUIPMENT GROUND
- HTR: HEATER
- LS: LIMIT SWITCH
- NO: MARKED TERMINAL
- NC: UNMARKED TERMINAL
- REC: RECTIFIER
- SPT: FAN SPEED TAP LOCATION
- TRAN: TRANSFORMER
- BARRIER: SEE NOTE #7
- INDOOR THERMOSTAT
- OUTDOOR UNIT

Fig. 20 - 324494-101
NOTES:

1. Use copper wire (75°C min) only between disconnect switch and unit.
2. To be wired in accordance with N.E.C. and local codes.
3. If any of the original wire, as supplied, must be replaced, use the same or equivalent type wire.
4. Replace low voltage fuse with no greater than 3 AMP fuse.
5. Smaller heaters will have fewer components.
6. Connect R to R, G to G, etc., see outdoor instructions for details.
7. Cooling speed selection can be tap 1, 2, 3, or 5.
8. Heating speed selection must be tap 4 only.

This compartment must be closed except when servicing.

Fig. 21 - 335826-101
Fig. 22 - EHK2 Electric Heaters

NOTES:
1: Use copper wire (75°C min.) only between disconnect switch and unit. To be wired in accordance with N.E.C. and local codes.
2: If any of the original wire as supplied must be replaced, use the same or equivalent type wire.
3: Remove the red lead from “240V” terminal and then connect the red lead to “208V” terminal on the transformer for 208 volts.
4: Factory default fan speed is medium; FM red wire connected to FR #4. For HI speed connect FM black wire to FR #4. For LOW speed connect FM blue wire to FR #4 and FM red wire to FR #8. Always connect the unused FM wire to the dummy terminal block.
5: TDR has a 1-30s on delay when “G” is energized and a 45-75s off delay when “G” is de-energized.
6: The 5kW heater kit has HTR1 only. Fan coils equipped with electric heat connect power supply to circuit breaker.
7: Connect R to R, G to G, etc. See outdoor or indoor instructions for details.
8: Cooling controls wiring not used with electric heaters.

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.