## FAN COILS
### ACCESSORY ELECTRIC HEATERS

## WIRING DIAGRAMS

<table>
<thead>
<tr>
<th>FIG.</th>
<th>FIELD-INSTALLED HEATER MODEL</th>
<th>FB4C</th>
<th>FE4A/FE5A</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>
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<td>1</td>
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<td>x</td>
<td>001</td>
<td>x</td>
<td>19,25</td>
<td>18,24</td>
<td>18,19,24,25</td>
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<td>6</td>
<td>KFCEH1601315A</td>
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<td>002-006</td>
<td>001-004</td>
<td>002-006</td>
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<td>001-003</td>
<td>002-006</td>
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### FAN COIL WITH RBC X–13 MOTOR OR BROAD OCEAN DIGI MOTOR

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<thead>
<tr>
<th>FIG.</th>
<th>FACTORY-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>12</td>
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<td>61</td>
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### FAN COIL WITH COOLING ONLY CONTROL

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<th>FIG.</th>
<th>MODEL</th>
<th>SIZE</th>
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<tr>
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<td>FV4C</td>
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<td>326014-101</td>
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<tr>
<td>14</td>
<td>FE4A/FE5A</td>
<td>002-006</td>
<td>333107-101</td>
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<td>FY5B/PF4MNA</td>
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<td>336228-101</td>
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<tr>
<td>16</td>
<td>PF4MNA/B</td>
<td>19,25,31,37,43,49,61</td>
<td>336228-101</td>
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<td>17</td>
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<td>FIG.</td>
<td>HEATER MODEL</td>
<td>CONTROL TYPE</td>
<td>FFMA</td>
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<tr>
<th>FIG.</th>
<th>HEATER MODEL</th>
<th>CONTROL TYPE</th>
<th>FFMA</th>
<th>LABEL</th>
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<tr>
<td>22</td>
<td>EHK2-05B</td>
<td>Sequencer - HS</td>
<td>18,24,30,36 Prior to serial number date code 1715V.</td>
<td>202070290385</td>
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<td>Sequencer - HS</td>
<td>18,24,30,36 Prior to serial number date code 1715V.</td>
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<td>Sequencer - HS</td>
<td>18,24,30,36 Prior to serial number date code 1715V.</td>
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<td>18-37 Serial number date code 1715V and later.</td>
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<td>Relay - HR</td>
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<td>06-7094-02</td>
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<td>Relay - HR</td>
<td>18-37</td>
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<th>FIG.</th>
<th>FFMA</th>
<th>LABEL</th>
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<td>26</td>
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<th>FIG.</th>
<th>FPM(A,B)(C,U)</th>
<th>LABEL</th>
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<td>27</td>
<td>ALL</td>
<td>202070290388 Valid for models FPM(A,B)(C,U)0**000AAAA</td>
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<tr>
<td>27</td>
<td>FPMA with Time Delay Board</td>
<td>2020702A2016 Valid for models FPM(A,B)(C,U)0**000ABAA</td>
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<table>
<thead>
<tr>
<th>FIG.</th>
<th>HEATER MODEL</th>
<th>FPMAN(C,U)</th>
<th>FPMBN(C,U)</th>
<th>LABEL</th>
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<tr>
<td>28</td>
<td>EHK3-05B</td>
<td>18-36</td>
<td>18-30</td>
<td>06-7094-03</td>
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<td>18-30</td>
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<td>18-36</td>
<td>18-30</td>
<td>06-7094-03</td>
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</tbody>
</table>
Fig. 1 - 340816-101

NOTES:
1. Use Copper Wire (75% 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.

LEGEND
- FIELD POWER WIRING
- MARKED TERMINAL
- PLUG AND RECEPTACLE
- CB CIRCUIT BREAKER
- FU LINE FUSE
- GND EQUIPMENT GROUND
- HTR HEATER
- LS LIMIT SWITCH
- REC RECIRCUIT
- TDR TIME DELAY RECIRCUIT

Fig. 2 - 340817-101

NOTES:
1. Use Copper Wire (75% 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. Red Wire / White Stripe To QC1A, BLK Wire / White Stripe To QC3A.
5. Use 60 Amp class K Fuses Only, For Replacement.

LEGEND
- FIELD POWER WIRING
- MARKED TERMINAL
- PLUG AND RECEPTACLE
- CB CIRCUIT BREAKER
- FU LINE FUSE
- GND EQUIPMENT GROUND
- HTR HEATER
- LS LIMIT SWITCH
- REC RECIRCUIT
- TDR TIME DELAY RECIRCUIT
Fig. 3 - 340813-101

Fig. 4 - 340814-101
Fig. 9 - 340820-101
1. Use copper wire (75°F 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.
9. Red Wire/WHT Stripe to QT1A, BLK Wire/WHT Stripe to QC2A.
10. N.E.C. class 2, 24 volts.
NOTES:
1. Use copper wire (75°F 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. 11 - 341018-101
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. 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.

### Minimum Motor Speed Tap Selection For Electric Heater

<table>
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<tr>
<th>Model Size</th>
<th>Heater Size</th>
<th>KW</th>
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<td>3.5 &amp; 9</td>
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<td>70</td>
<td>70</td>
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</tbody>
</table>

* 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.

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. 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.

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Fig. 15 - 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

LEGEND

Fig. 16 - 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
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. (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.
9. Motor speed selection for 018 and 024 sizes with 11 kW heater and heat pump is High. All other heater combinations is Low.

This compartment must be closed except when servicing.
NOTES:
1. Use copper wire (75°F 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. (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.
9. Motor speed selection for 018 and 024 sizes with 11 kW heater and heat pump is High. All other heater combinations is Low.

This compartment must be closed except when servicing.

ROTATION
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. 20 - 341082-101
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.

LEGEND
- - - FIELD POWER WIRING
   □ MARKED TERMINAL
   → PLUG AND RECEPTACLE
   ○ UNMARKED TERMINAL
   ● WIRE NUT
   COM COMMUN
   DISC DISCONNECT
   F FUSE
   FM FAN MOTOR
   GND EQUIPMENT GROUND
   HIR HEATER
   LS LIMIT SWITCH
   R RESISTOR
   REC RECTIFIER
   SPT FAN SPEED TAP LOCATION
   TB TERMINAL BLOCK
   TRN TRANSFORMER

Fig. 21 - 341083-101
Fig. 22 - FFMANP(018,024,030,036 and EHK2 Electric Heaters with Sequencers

NOTE: Representative for FFMANP(018,024,030,036) prior to serial number date code 1715V

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 the “208V” terminal and then connect the red lead to the “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.
Fig. 23 - FFMANP(018,024,030,036) with PCB Time Delay

NOTE: Representative for FFMANP(018,024,030,036) serial number date code 1715V and later.
NOTES:

1: Use copper wire (75°C min) only between circuit breaker 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: The 5KW heater kit has HTR1 only. Fan coils equipped with electric heat connect power supply to circuit breaker.

06-7094-02

Fig. 24 - EHK2 With Heater Relays
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: Connect R To R, G To G, Etc. See Outdoor Instruction For Details.
5: To Change Speed Tap, Move Green Wire Desired Terminal.
6: See Airflow Tables For Tap Usage.
7: Factory Wires May Be Present, DO NOT USE.
8: Taps 2 & 4 Have a 90s Delay Off, Taps 1, 3 & 5 are 30s.
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: Connect R To R, G To G, Etc., See Outdoor Instruction For Details.
5: To Change Speed Tap, Move Green Wire Desired Terminal.
6: See Airflow Tables For Tap Usage.
7: Factory Wires May Be Present, DO NOT USE.
8: Taps 2 & 4 Have a 90s Delay Off, Taps 1, 3 & 5 are 30s.
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. Fan coils equipped with electric heater connect power supply to terminal block. Cooling controls wiring not used with electric heaters.
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 connected to FR #6. Always connect the unused FM wire to the dummy terminal block.
5: TDR has a 1-20s on delay when “G” is energized and a 50-70s off delay when “G” is de-energized.
6: Connect R to R, G to G, etc. See outdoor or indoor instructions for details.

Fig. 27 - FPM(A,B)N(U,C)
Fig. 28 - EHK3 With Heater Relays