**FFU Controls Wiring Diagrams**

**FFU - 115/277V, 1ø ECM MOTOR W/ STANDARD ECM SPEED CONTROL (ECMSC)**

**Line Legend**
- Factory Electrical Connection
- Field Electrical Connection

**Notes:**
1. 115V MOTOR HAS JUMPER BETWEEN PINS 1 AND 2 ON MOTOR HARNESS.
2. 277V MOTORS DO NOT HAVE THIS JUMPER.
3. FACTORY INSTALLED JUMPER, REMOVE AND REPLACE WITH RELAY FOR REMOTE ON/OFF CONTROL.
4. TEST POINTS FOR MONITORING MANUAL SPD CONTROL SETTING.
5. -4 to 5 VDC = MINIMUM TO MAXIMUM AIRFLOW.
6. 0-1 VDC = MANUAL SPEED ADJUSTMENT
7. **REFER TO DRAWING 266010 FOR LED KIT WIRING DIAGRAM**

**Wiring Notes:**
1. INSTALLATION WORK AND ELECTRICAL WIRING MUST BE DONE BY QUALIFIED PERSONS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
2. USE COPPER 75°C MIN. RATED SUPPLY WIRE FOR FIELD CONNECTIONS.
3. FIELD LOW VOLTAGE WIRING INSULATION MUST HAVE 600V RATING.
4. 3-WIRE CONNECTION IS REQUIRED FOR BACNET MS/TP TERMINAL BLOCK CONNECTION.

**Wiring Diagrams:**
- FFU-1-X ECM MOTOR W/ STANDARD ECM SPEED CONTROL (ECMSC)
- FFU-1-X ECM MOTOR W/ BACNET FLOW CONTROLLER (BFC)
FAN FILTER UNIT
WIRING DIAGRAMS

FFU - 240V, 1Ø ECM MOTOR W/ STANDARD ECM SPEED CONTROL (ECMSC) ▼

LINE LEGEND

- FACTORY ELECTRICAL CONNECTION
- FIELD ELECTRICAL CONNECTION

NOTES:
1. FACTORY INSTALLED JUMPER. REMOVE AND REPLACE WITH RELAY FOR REMOTE ON/OFF CONTROL.
2. TEST POINTS FOR MONITORING MANUAL SPD.
3. SIMULATNEOUS SIGNALS TO GREEN AND RED LED INDICATOR LIGHT IS CREATED BY FACTORY INSTALLED JUMPER. REMOVE AND REPLACE WITH RELAY FOR REMOTE ON/OFF CONTROL.
4. USE COPPER 75 C MIN. RATED SUPPLY WIRE FOR FIELD CONNECTIONS.
5. 3-WIRE CONNECTION IS REQUIRED FOR BACNET MS/TP TERMINAL BLOCK CONNECTION.

WIRING NOTES:
1. INSTALLATION WORK AND ELECTRICAL WIRING MUST BE DONE BY QUALIFIED PERSON(S) IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
2. USE COPPER 75 C MIN. RATED SUPPLY WIRE FOR FIELD CONNECTIONS.
3. FIELD LOW VOLTAGE WIRING INSULATION MUST HAVE 600V RATING.

NOTE: For details on installation and wiring of the FFU with integrated LED lighting (UFFU) please refer to the URDC Ultra Remote Driver Cabinet Manual on priceindustries.com
FAN FILTER UNIT
WIRING DIAGRAMS

FFU - 115/277V, 1ø PSC (STANDARD MOTOR) ▼

**Line Legend**
- Factory Electrical Wiring
- Field Electrical Wiring

**Legend**
- Cap - Motor Capacitor
- DSW - Disconnect Switch
- FSC - Fan Speed Control
- L1 - Line Connection
- PSC - Fan Motor
- N - Neutral
- Opt. - Optional
- TB - Terminal Block
- WK - Wall Mounted Speed Controller
- G - Ground
- TR - Transformer
- H - Hot Connection
- C - Common Connection
- LED Kit - Status Indicator Options (YL/.Players/MI/MBAS)

**Optional Equipment**
- Disconnect Switch (DSW)
- Wall Mounted Speed Controller (WK)
- LED (LED)

**Notes**
1. Use Copper 75 C Min. Rated Supply Wire for Field Connections.
2. Field Low Voltage Wiring Insulation Must Have 600V Rating.
3. Transformer Included Only with LED Option
   **Refer to Drawing 265010 for LED Kit Wiring Diagram**

FFU - 208/240V, 1ø MOTOR (STANDARD/PSC) ▼

**Line Legend**
- Factory Electrical Wiring
- Field Electrical Wiring

**Legend**
- Cap - Motor Capacitor
- DSW - Disconnect Switch
- FSC - Fan Speed Control
- L1 - Line Connection
- L2 - Line Connection
- PSC - Fan Motor
- Opt. - Optional
- TB - Terminal Block
- WK - Wall Mounted Speed Controller
- G - Ground
- TR - Transformer
- H - Hot Connection
- C - Common Connection
- LED Kit - Status Indicator Options (YL/Players/MI/MBAS)

**Optional Equipment**
- Disconnect Switch (DSW)
- Wall Mounted Speed Controller (WK)
- LED (LED)

**Notes**
1. Use Copper 75 C Min. Rated Supply Wire for Field Connections.
2. Field Low Voltage Wiring Insulation Must Have 600V Rating.
3. Transformer Included Only with LED Option
   **Refer to Drawing 265010 for LED Kit Wiring Diagram**

[Diagram of FFU - 115/277V, 1ø PSC (STANDARD MOTOR)]

[Diagram of FFU - 208/240V, 1ø MOTOR (STANDARD/PSC)]
FFU LED Wiring Diagrams

**FFU LED - FILTER LOADING ▼**

- **Tri-Color LED**
  - **LED Green**: Indicates filter is clean
  - **LED Yellow**: Indicates filter is loaded

- **Factory Connection**
  - Field connection for BTR filter

**FFU LED - MOTOR LOADING ▼**

- **Dual-Color LED**
  - **LED Green**: Indicates motor is running
  - **LED Red**: Indicates motor is not running

- **Factory Connection**
  - Field connection for BTR filter
FFU LED - MOTOR LOADING & FILTER LOADING

- LED GREEN: INDICATES MOTOR IS RUNNING, AND FILTER IS CLEAN
- LED RED: INDICATES WHEN MOTOR IS NOT RUNNING
- LED YELLOW: INDICATES FILTER IS LOADED

FACTORY CONNECTION

FACTORY CONNECTION IF RSR FILTER
FIELD CONNECTION IF BTR FILTER

FFU LED - MOTOR LOADING, FILTER LOADING, MOTOR BFC & FILTER BFC

- LED GREEN: INDICATES MOTOR IS RUNNING, AND FILTER IS CLEAN
- LED SOLID RED: INDICATES MOTOR TURNED OFF
- LED BLINKING RED INDICATES MOTOR FAILURE
- LED YELLOW: INDICATES FILTER IS LOADED

FACTORY CONNECTION

FACTORY CONNECTION IF RSR FILTER
FIELD CONNECTION IF BTR FILTER