FFU LED - MOTOR LOADING & FILTER LOADING

TRI COLOR LED
- 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

TRI COLOR LED
- 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
FFU - 115/277V, 1Ø PSC (STANDARD MOTOR)

**Legend**
- Cap = Motor Capacitor
- DS = Disconnect Switch
- FSC = Fan Speed Control
- L1 = Line Connection
- L2 = Line Connection
- PSC = Fan Motor
- N = Neutral
- Opt = Optional
- TB = Terminal Block
- WK = Wall Mounted Speed Controller
- C = Ground
- TR = Transformer
- H = Hot Connection
- LED Kit = Status Indicator Options

**Notes**
1. Use copper 75 C min. rated supply wire for field connections.
2. Field low voltage wiring insulation must have 600V rating.
   - Transformer included only with LED option
   - Refer to drawing 265610 for LED kit wiring diagram

**FFU - 208/240V, 1Ø MOTOR (STANDARD/PSC)**

**Legend**
- Cap = Motor Capacitor
- DS = Disconnect Switch
- FSC = Fan Speed Control
- L1 = Line Connection
- L2 = Line Connection
- PSC = Fan Motor
- N = Neutral
- Opt = Optional
- TB = Terminal Block
- WK = Wall Mounted Speed Controller
- C = Ground
- TR = Transformer
- H = Hot Connection
- LED Kit = Status Indicator Options

**Notes**
1. Use copper 75 C min. rated supply wire for field connections.
2. Field low voltage wiring insulation must have 600V rating.
   - Transformer included only with LED option
   - Refer to drawing 265610 for LED kit wiring diagram
FFU - 115/277V, 1Ø ECM MOTOR W/ STANDARD ECM SPEED CONTROL (ECMSC)

**LEGEND**
- DSW - DISCONNECT SWITCH
- L1 - LINE CONNECTION
- ECMSC - ECM STANDARD SPEED CONTROLLER
- LED KIT - STATUS INDICATOR OPTIONS (FL/FLAS/WL/WBS)
- FACTORY ELECTRICAL CONNECTION
- FIELD ELECTRICAL CONNECTION

**ECM-ELECTRICALLY COMMUTATED MOTOR**
- N - NEUTRAL
- L1 - LINE CONNECTION
- TR - TRANSFORMER
- G - GROUND
- B.A.S. - BUILDING AUTOMATION SYSTEM
- OPT. - OPTIONAL
- WK - WALL MOUNTED SPEED CONTROLLER

**NOTES**
1. 115V MOTOR HAS JUMPER BETWEEN PINS 1 AND 2 ON MOTOR HARNESS.
2. FACTORY INSTALLED JUMPER REMOVE AND REPLACE WITH RELAY FOR REMOTE ON/OFF CONTROL.
3. TEST POINT FOR MONITORING MANUAL SPD CONTROL SETTING:
   - 1.45 VDC = MAXIMUM AIRFLOW
   - 0-1 VDC = FAN OFF
4. REFER TO DRAWING 266010 FOR LED WIRING DIAGRAM
5. 115V MOTOR HAS 50 VA POWER HARNESS.
6. LED KIT - OPT.
7. FIELD LOW VOLTAGE WIRING INSULATION MUST HAVE 600V RATING.

**B.A.S. CONTROL**
- THE BAS INPUT TO THE SPEED CONTROLLER IS JUMPER SELECTABLE FOR 0-10VDC OR 0-20 mA.
- BAS INPUT SIGNAL TO THE SPEED CONTROL:
  - 2-10 VDC (4-20mA) = MINIMUM TO MAXIMUM AIRFLOW.
  - 1-2 VDC (2-4mA) = BAS FAN OFF
  - NO SIGNAL (0-1 VDC, 0-2 mA) = MANUAL SPEED ADJUSTMENT

**FFU - 115/277V, 1Ø ECM MOTOR W/ BACNET FLOW CONTROL (BFC)**

**LEGEND**
- DSW - DISCONNECT SWITCH
- ECM - ELECTRICALLY COMMUTATED MOTOR
- L1 - LINE CONNECTION
- BFC - BACNET FLOW CONTROLLER
- LED - OPTIMAL STATUS INDICATOR (FL/FLAS/WL/WBS)
- FACTORY ELECTRICAL CONNECTION
- FIELD ELECTRICAL CONNECTION
- POWER HARNESS

**NOTES**
1. 240/277V MOTORS DO NOT HAVE JUMPER BETWEEN PINS 1 AND 2 ON MOTOR HARNESS.
2. YELLOW LED INDICATOR LIGHT IS CREATED BY SIMULTANEOUS SIGNALS TO GREEN AND RED LED.
3. REFER TO DRAWING 266010 FOR LED WIRING DIAGRAM (OPTIONAL)

**B.A.S. CONTROL**
- F BAS CONTROL REQUIRED, FIELD WIRE CONNECTIONS TO ANALOG INPUTS (AH & CCOM)
- BAS INPUT SIGNAL TO THE SPEED CONTROL:
  - 2-10 VDC (4-20mA) = MINIMUM TO MAXIMUM AIRFLOW AS PER CFM CHARTS.
  - 1-2 VDC (2-4mA) = BAS FAN OFF
  - NO SIGNAL (0-1 VDC, 0-2 mA) = MANUAL SPEED ADJUSTMENT
- BACNET CONTROL OVERIDES BAS INPUT SIGNAL.

**WIRING NOTES**
1. USE COPPER 75 C WHI. RATED SUPPLY WIRE FOR FIELD CONNECTIONS.
2. FIELD LOW VOLTAGE WIRING INSULATION MUST HAVE 600V RATING.
FFU - 240V, 1Ø ECM MOTOR W/ STANDARD ECM SPEED CONTROL (ECMSC) ▼

**LEGEND**
- DSWM – DISCONNECT SWITCH
- L1 – LINE CONNECTION
- ECMSC – ECM STANDARD SPEED CONTROLLER
- LED KIT – STATUS INDICATOR OPTIONS (FL/TB/M/W/AMB)
- W – WALL MOUNTED SPEED CONTROLLER
- 208 OR 240V 1Ø
- DSWM (OPT)
- TR – TRANSFORMER
- TB – TB1 – TERMINAL BLOCK
- WG – GROUND

**CONNECTIONS**
- ELECTRICAL CONNNECTIONS
- FACTORY ELECTRICAL CONNECTION
- FIELD ELECTRICAL CONNECTION

**NOTES:**
1. 240/277V MOTORS DO NOT HAVE JUMPER BETWEEN PINS 1 AND 2 ON MOTOR HARNESS.
2. FACTORY INSTALLED JUMPER, REMOVE AND REPLACE WITH RELAY FOR REMOTE ON/OFF CONTROL.
3. TEST POINTS FOR MONITORING MANUAL SPD/CONTROL SETTING.
4. 0-1 VDC = MINIMUM TO MAXIMUM AIRFLOW.
5. 0-1 VDC = OFF
6. REFER TO DRAWING 260010 FOR LED KIT WIRING DIAGRAM

B.A.S. CONTROL
- SPEED CONTROLLER MUST BE ENERGIZED AT ALL TIMES – USE JUMPER WIRE
- THE BAS INPUT TO THE SPEED CONTROLLER IS JUMPER SELECTABLE FOR 0-10VDC OR 0-20 mA.
- BAS INPUT SIGNAL TO THE SPEED CONTROLLER
- 2-10 VDC (4-20mA) = MINIMUM TO MAXIMUM AIRFLOW
- 1-2 VDC (2-4mA) = BAS FAN OFF
- NO SIGNAL (0-1 VDC, 0-2 mA) = MANUAL SPEED ADJUSTMENT

FFU - 240V, 1Ø ECM MOTOR W/ BACNET FLOW CONTROLLER (BFC) ▼

**LEGEND**
- DSWM – DISCONNECT SWITCH
- L1 – LINE CONNECTION
- ECMSC – ECM STANDARD SPEED CONTROLLER
- BFC – BACNET FLOW CONTROLLER
- N – NEUTRAL
- TB – TB1 – TERMINAL BLOCK
- TR – TRANSFORMER
- W – WALL MOUNTED SPEED CONTROLLER
- WG – GROUND

**CONNECTIONS**
- ELECTRICAL CONNNECTIONS
- FACTORY ELECTRICAL CONNECTION
- FIELD ELECTRICAL CONNECTION

**NOTES:**
1. 115V MOTOR HAS JUMPER BETWEEN PINS 1 AND 2 ON MOTOR HARNESS.
2. 240/277V MOTORS DO NOT HAVE THIS JUMPER.
3. YELLOW LED INDICATOR LIGHT IS CREATED BY SIMULTANEOUS SIGNALS TO GREEN AND RED LED
4. REFER TO DRAWING 260010 FOR LED KIT WIRING DIAGRAM (OPTIONAL)

**WIRING NOTES:**
1. USE COPPER 75 C MIN. RATED SUPPLY WIRE FOR FIELD CONNECTIONS.
2. FIELD LOW VOLTAGE WIRING INSULATION MUST HAVE 600 V RATING.

**NOTES:**
- 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