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# **Addendum #1**

**2-8-2024**

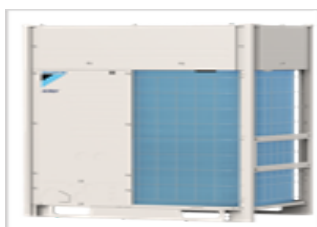
**DAIKIN EQUIPMENT  
UPDATED**

**C.H. BOOTH LIBRARY  
23 MAIN STREET  
NEWTOWN CT, 06470**

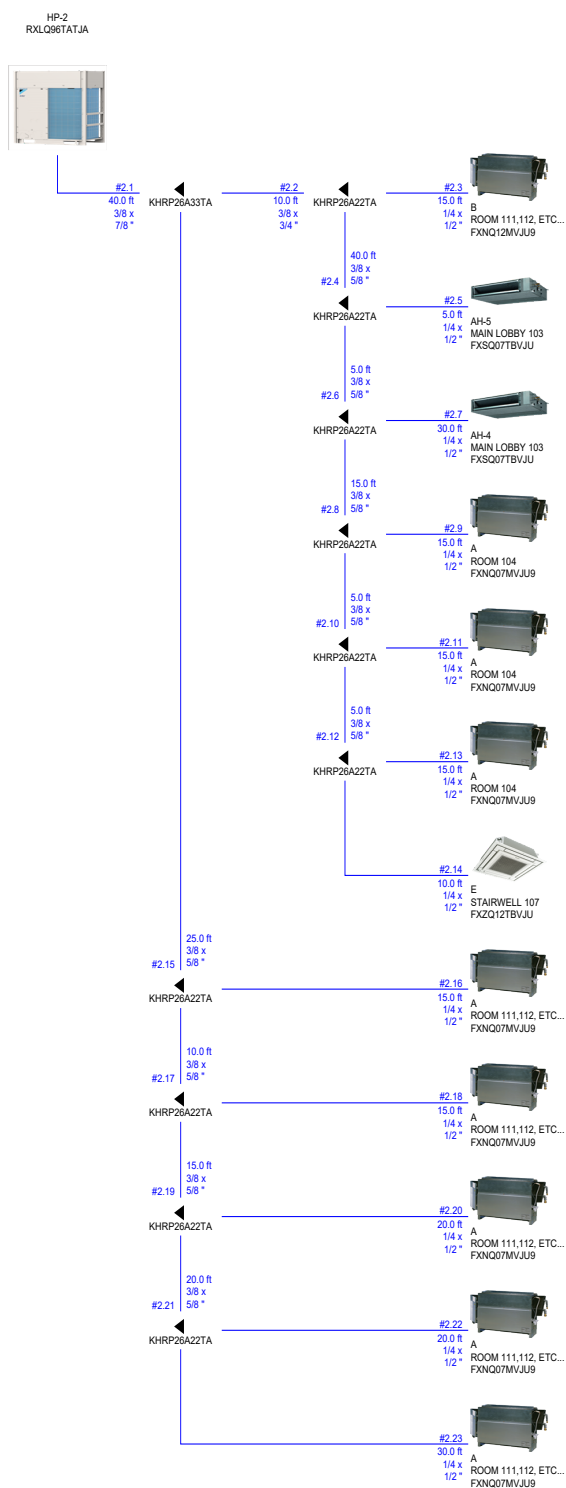
## Piping diagrams

### Piping HP-1

HP-1  
RELQ120TATJA

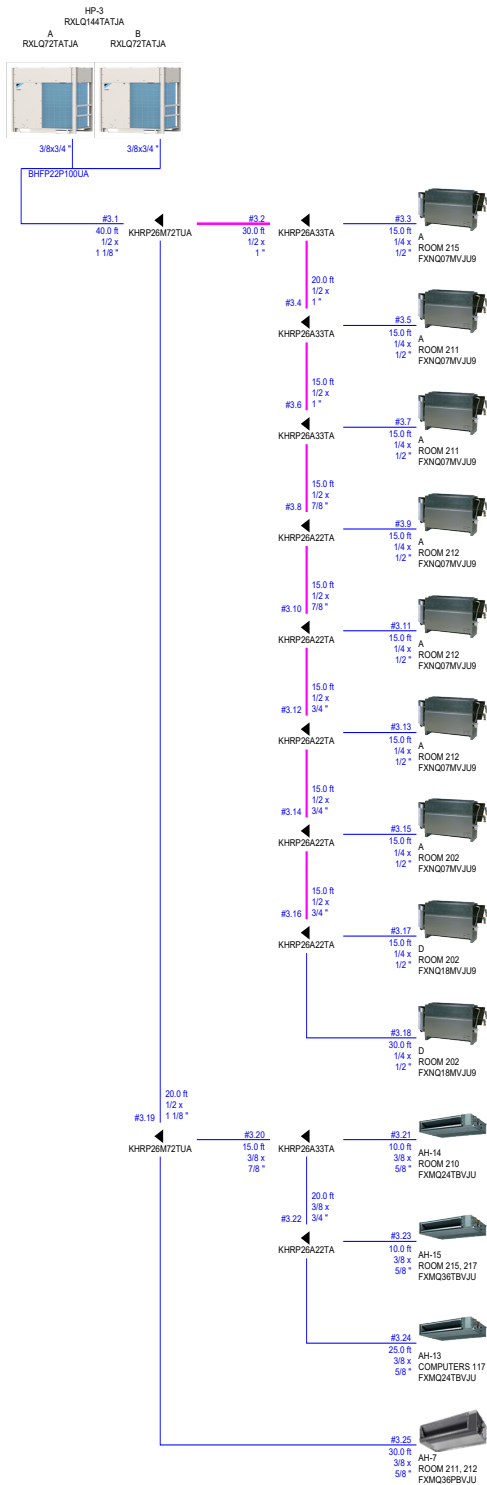


## Piping HP-2

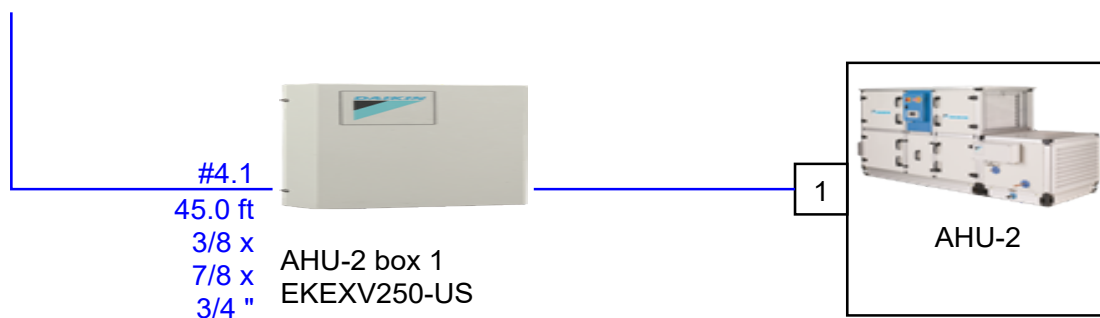
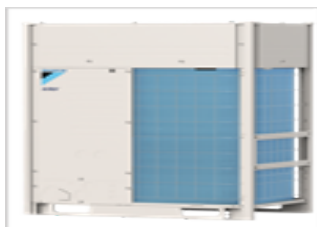


# DAIKIN

## Piping HP-3

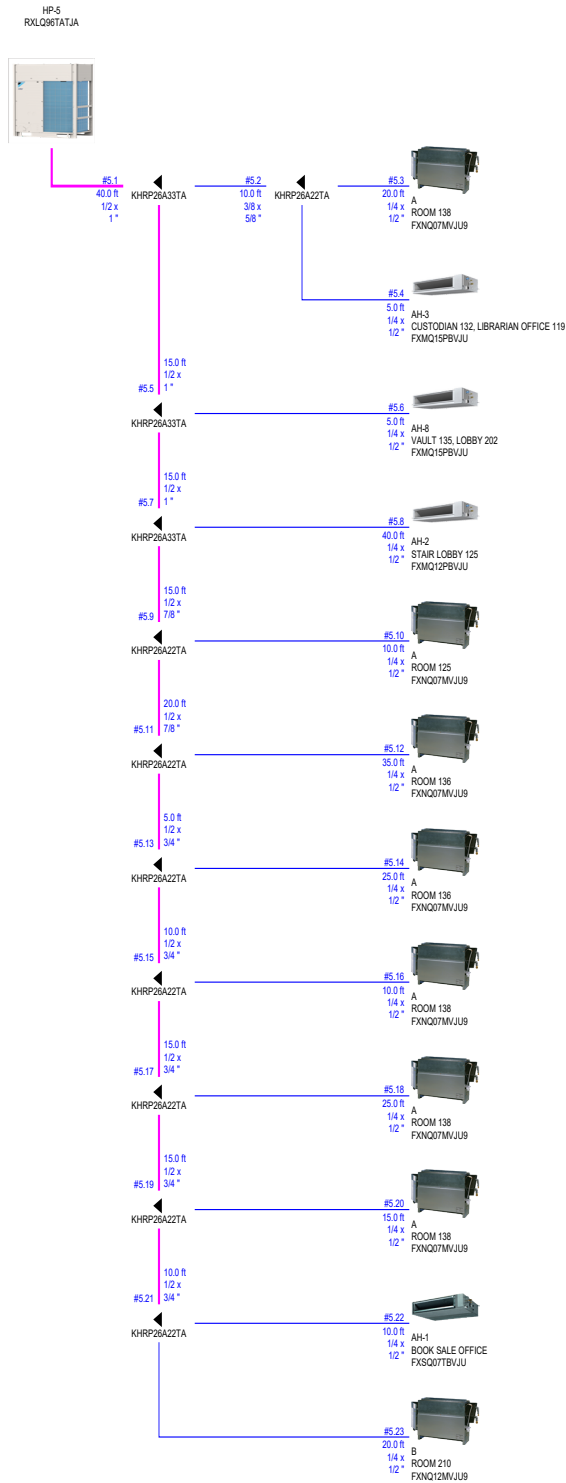


HP-4  
RELQ96TATJA



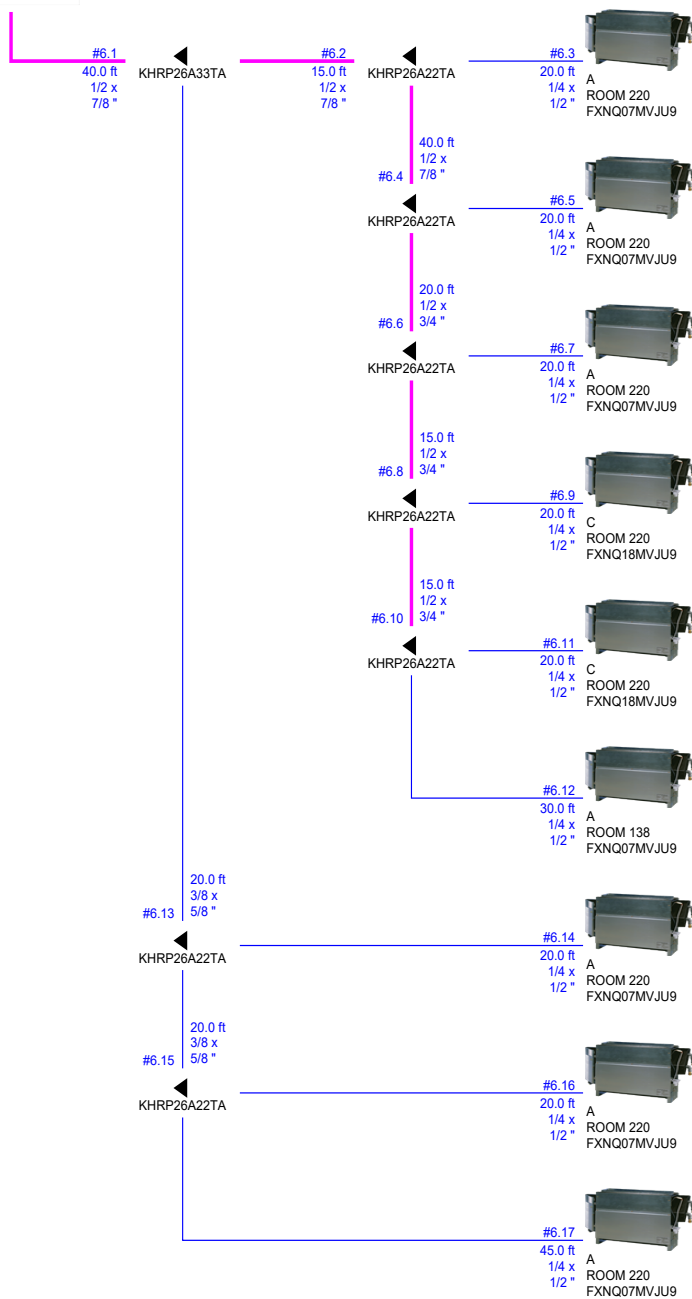
# DAIKIN

## Piping HP-5



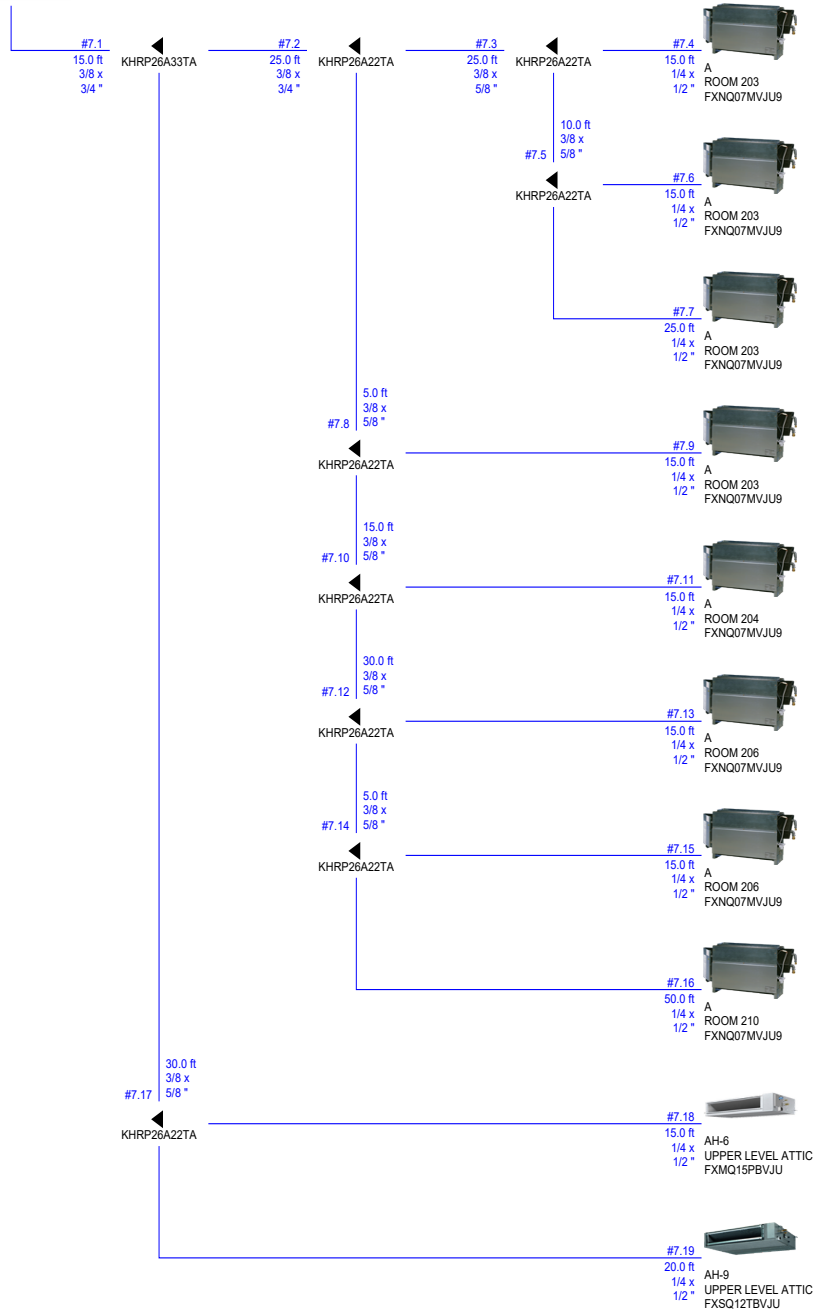
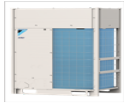
## Piping HP-6

HP-6  
RXLQ72TATJA



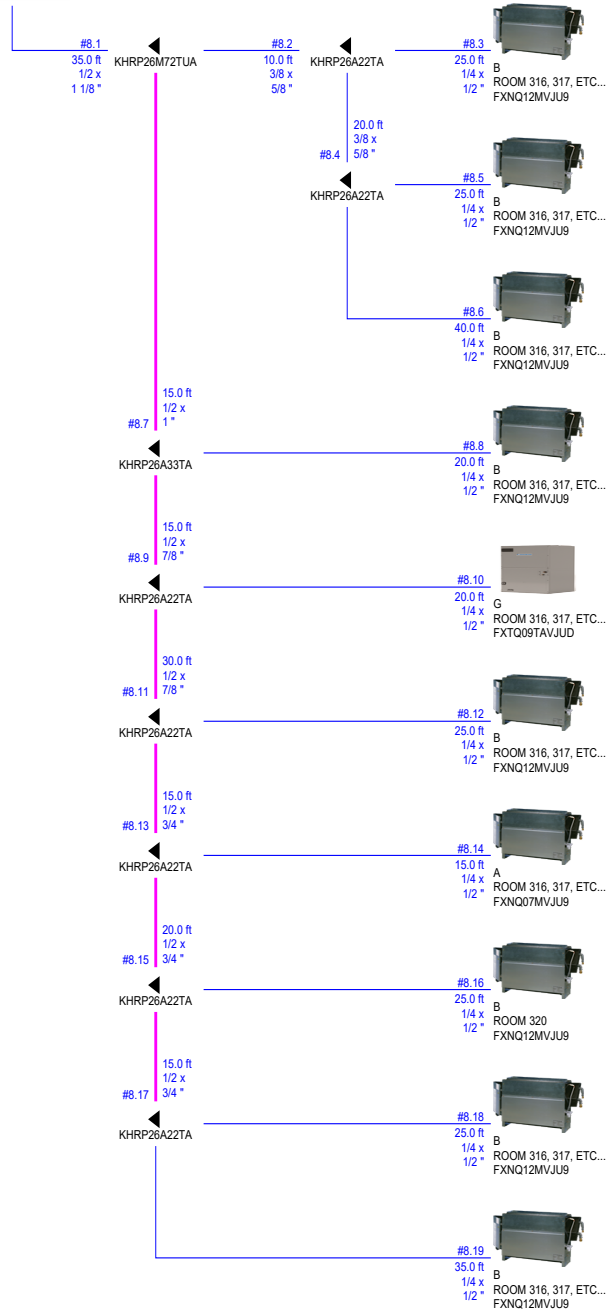
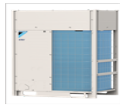
## Piping HP-7

HP-7  
RXLQ72TATJA

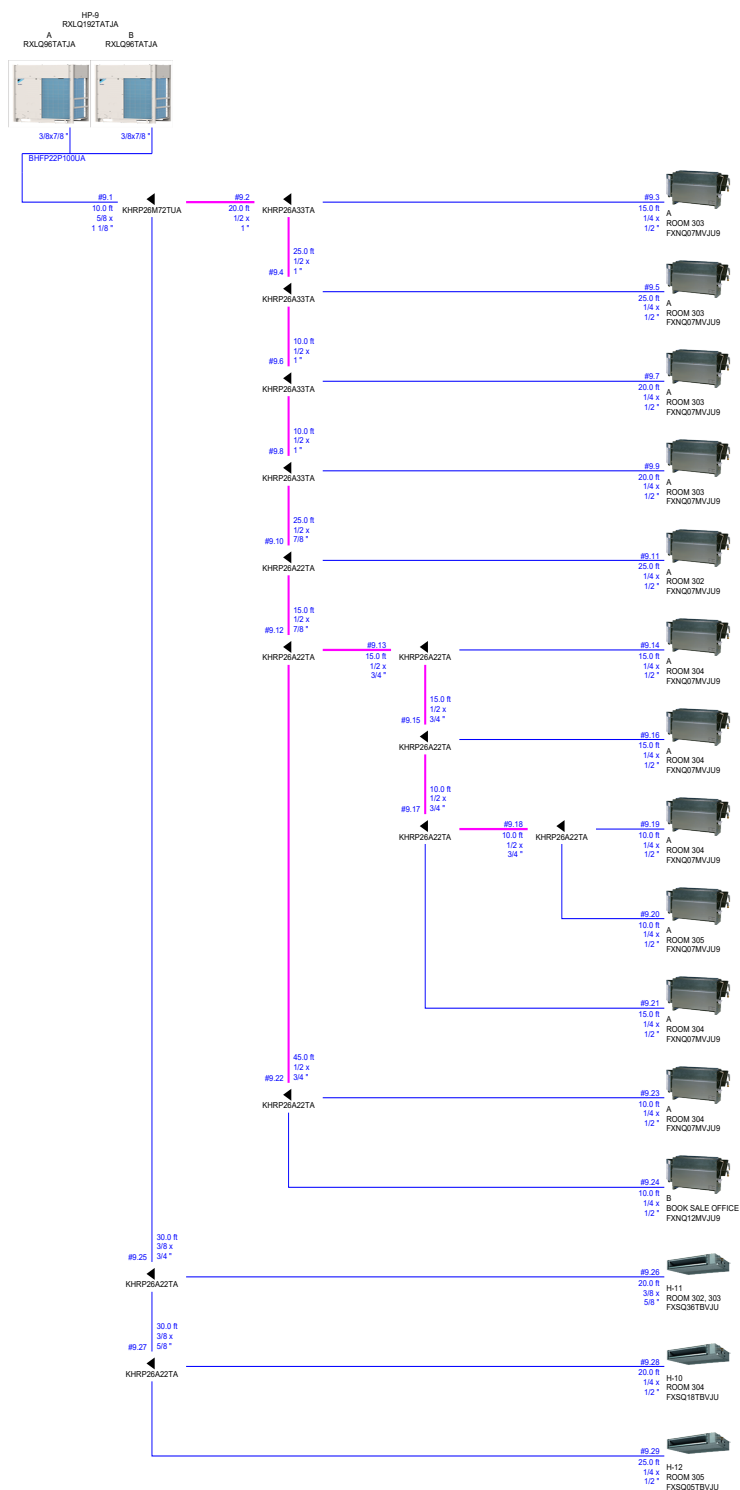


## Piping HP-8

HP-8  
RXLQ120TATJA



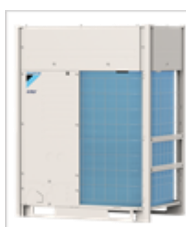
## Piping HP-9



## Piping diagrams

### Piping HP-10

HP-10  
RXLQ96TATJA

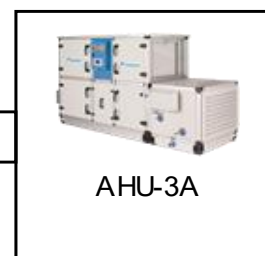


#10.1

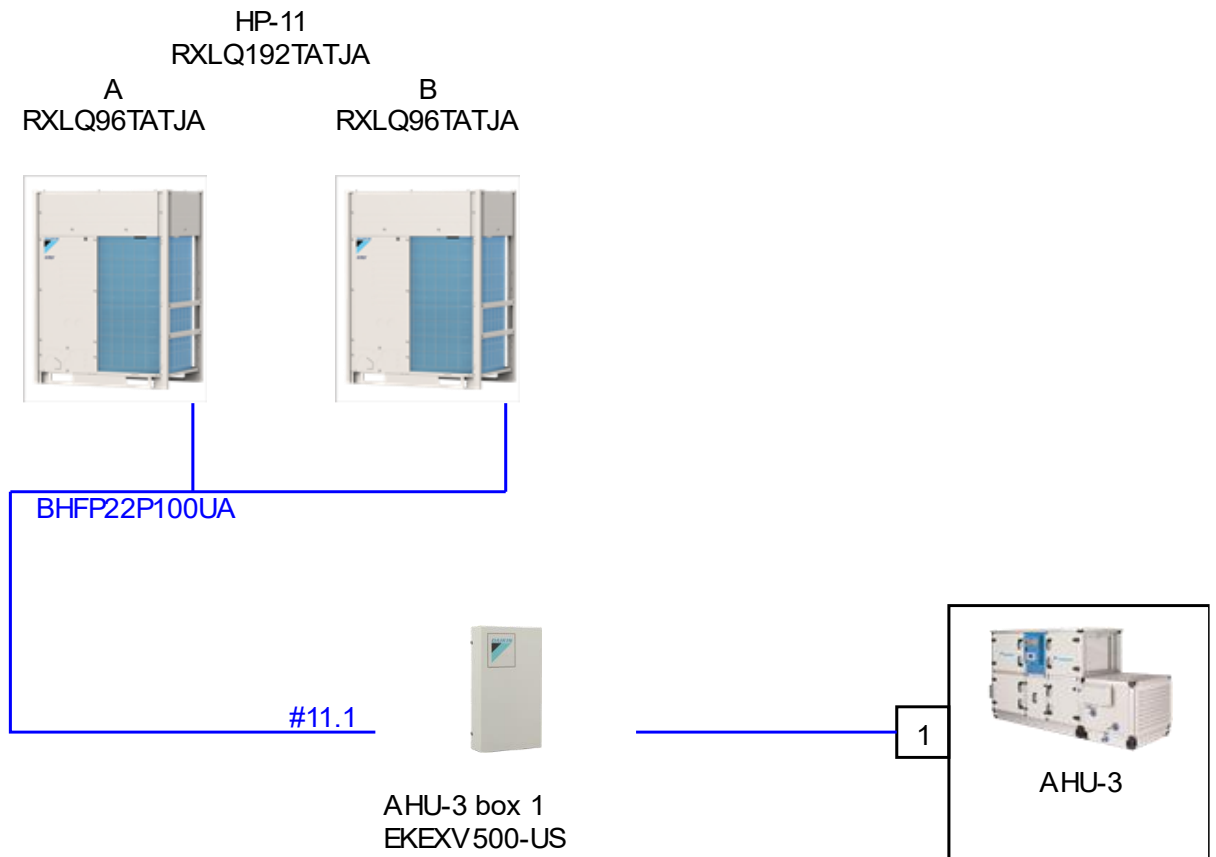


AHU-3A box 1  
EKEXV250-US

1

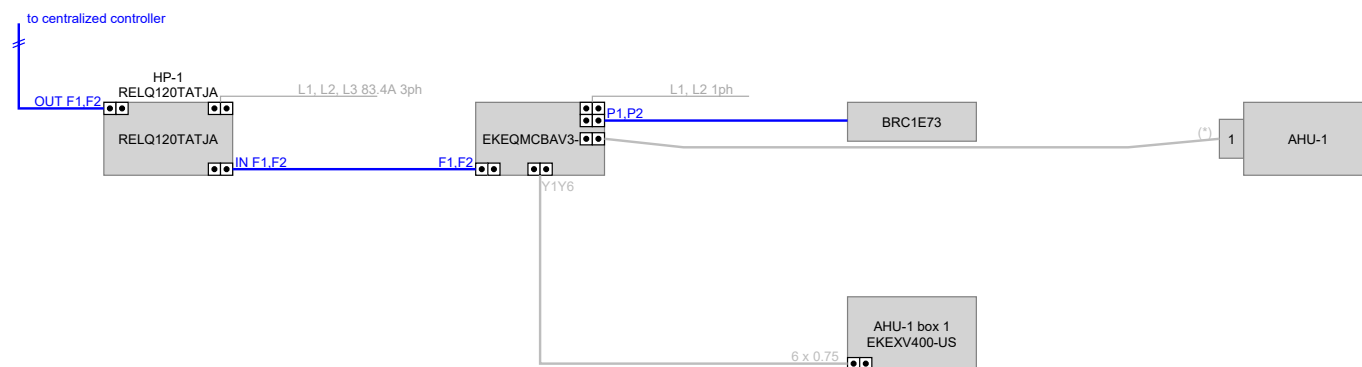


AHU-3A



## Wiring diagrams

### Wiring HP-1



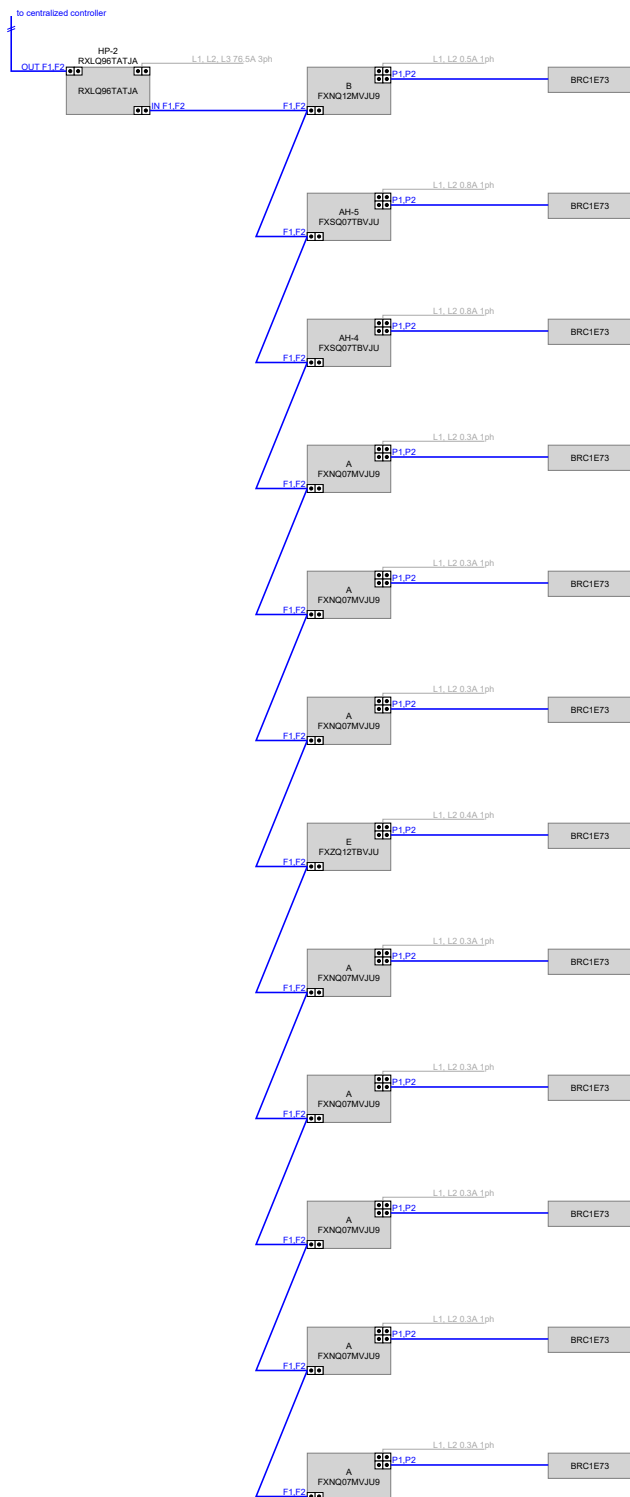
### Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## Wiring HP-2



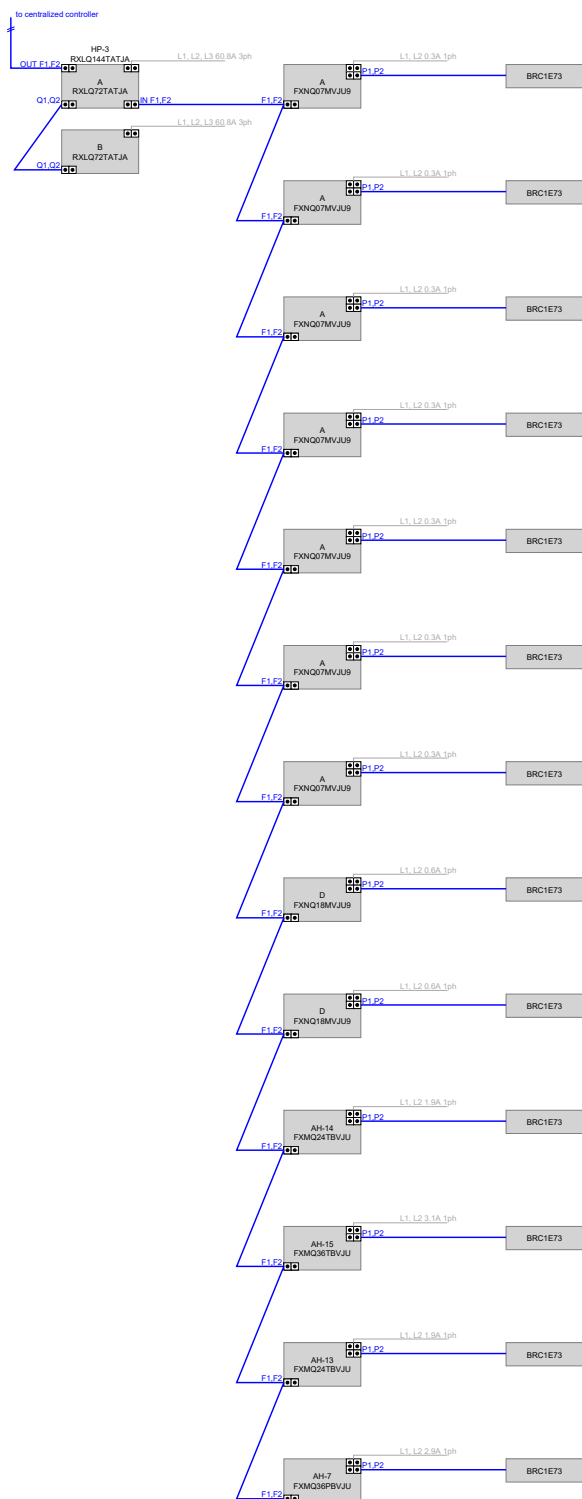
### Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## Wiring HP-3



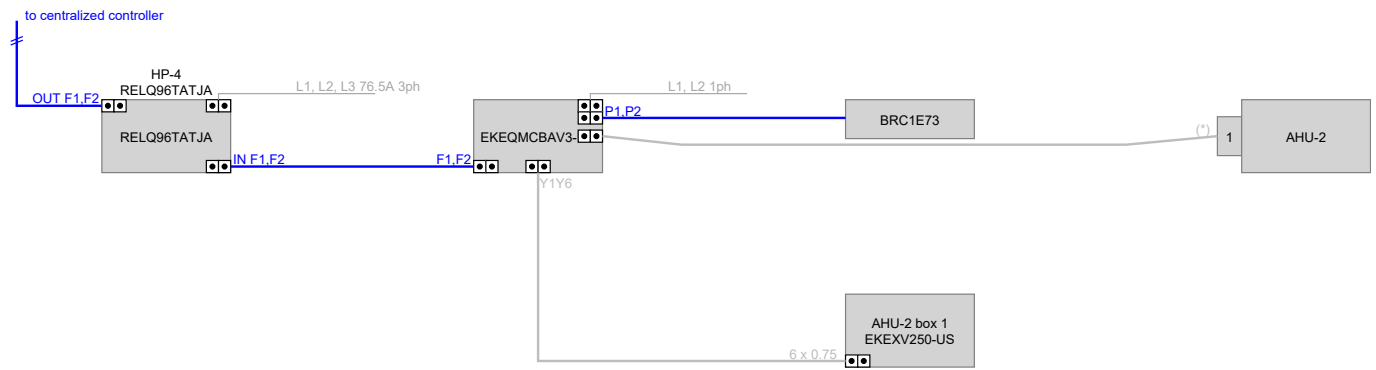
## Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## Wiring HP-4



## Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

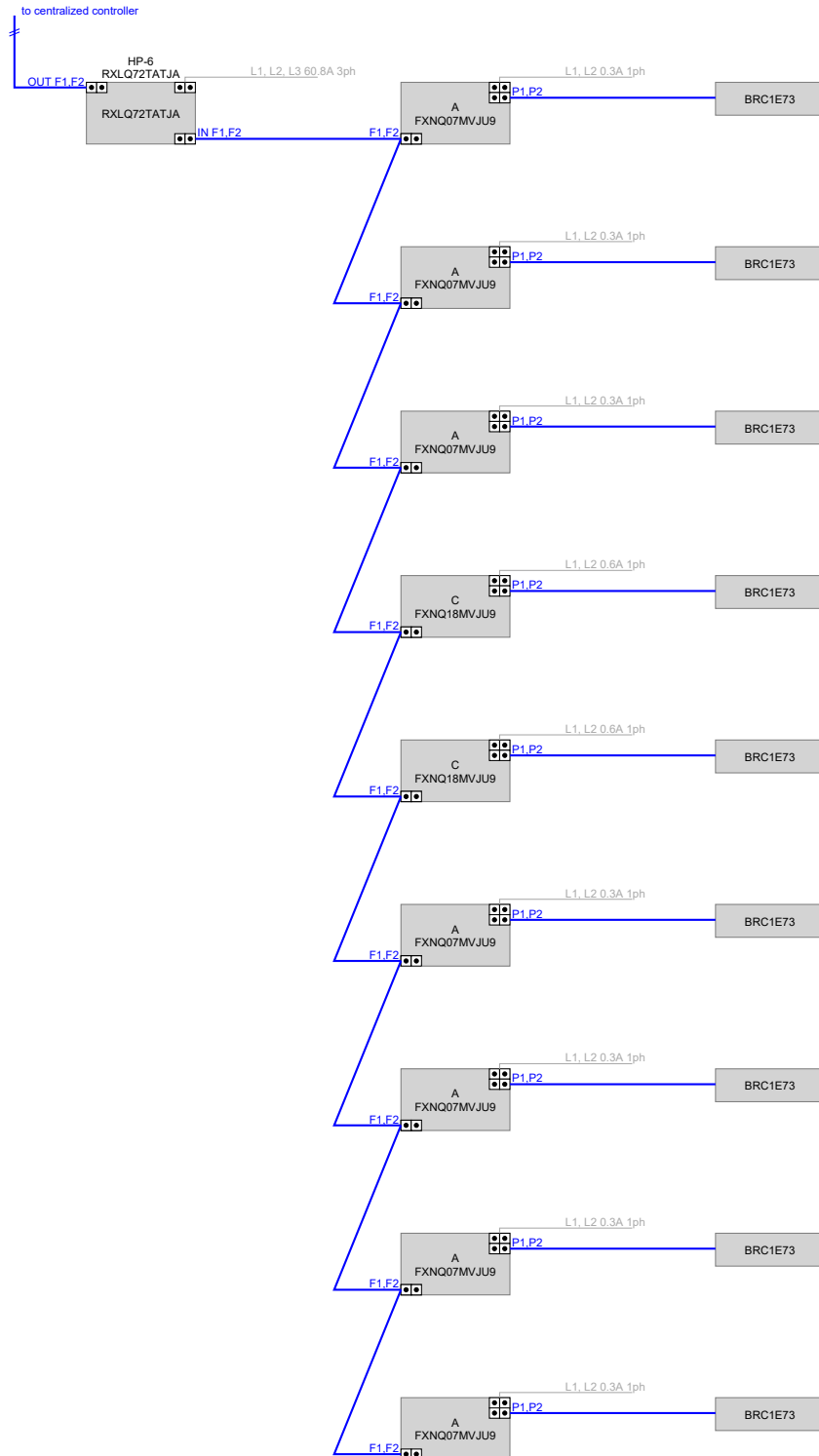
*Note:*



F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## Wiring HP-6

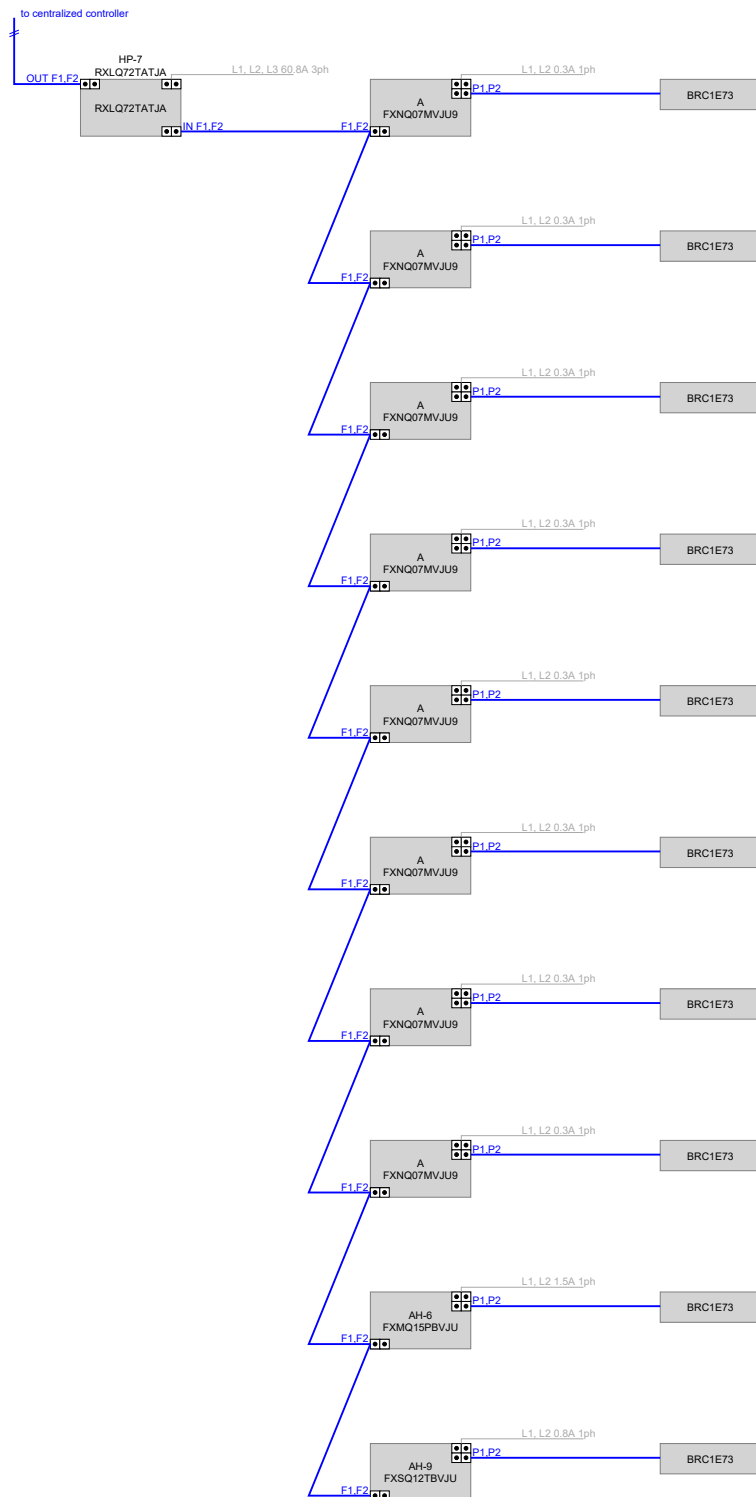


### Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*



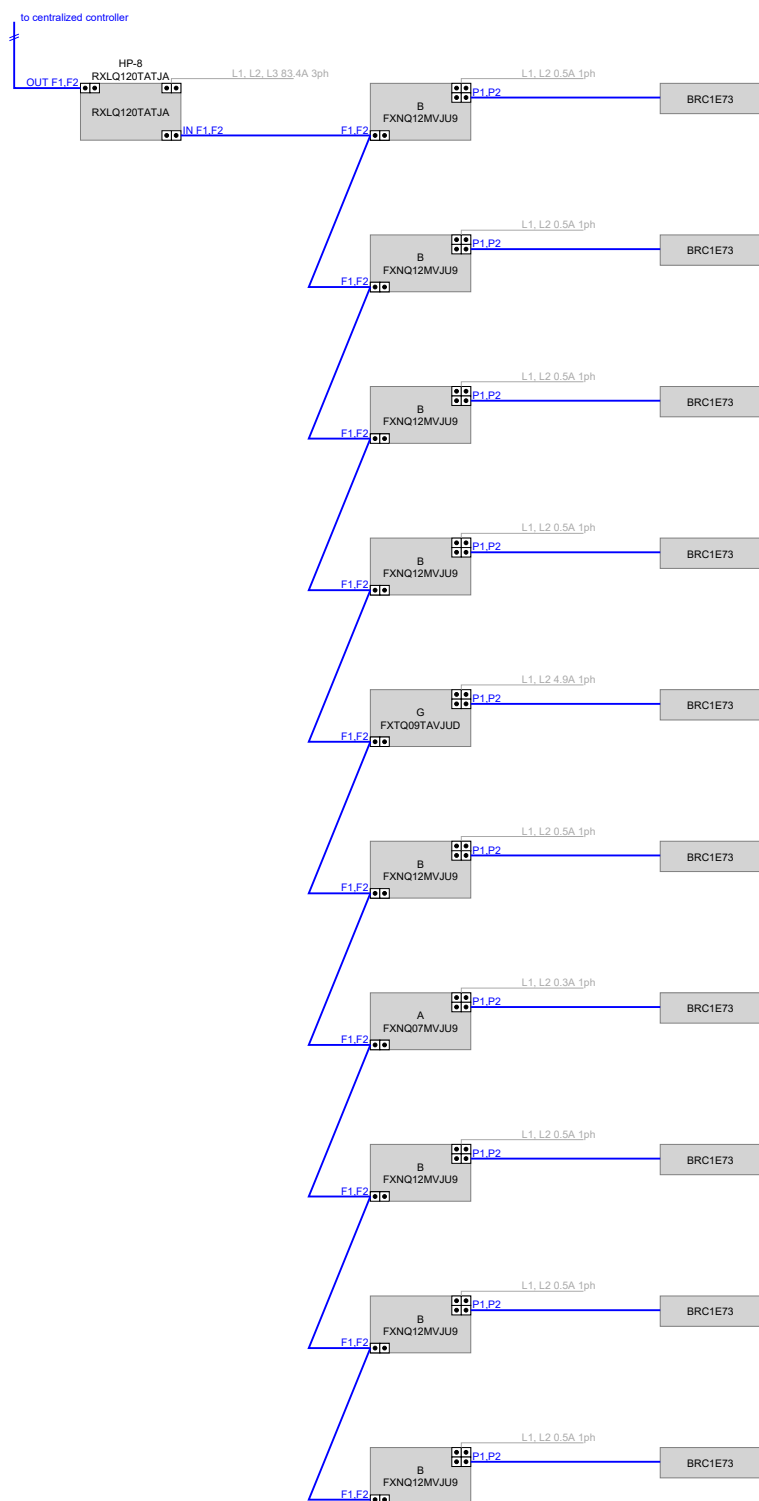
### Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## Wiring HP-8



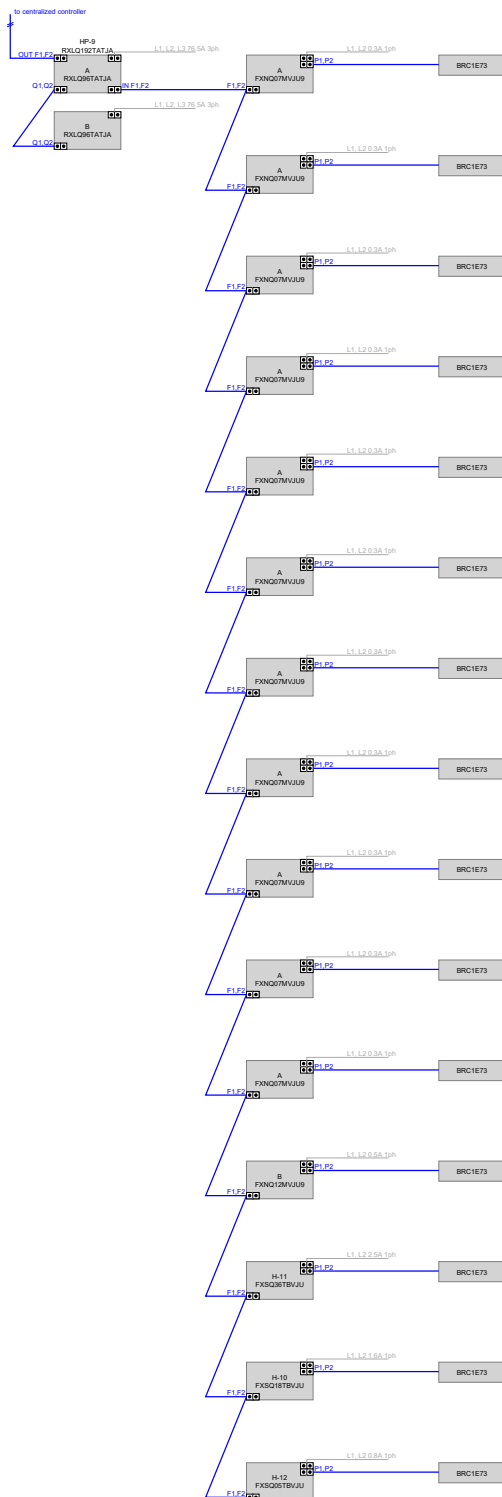
## Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## Wiring HP-9



### Remarks

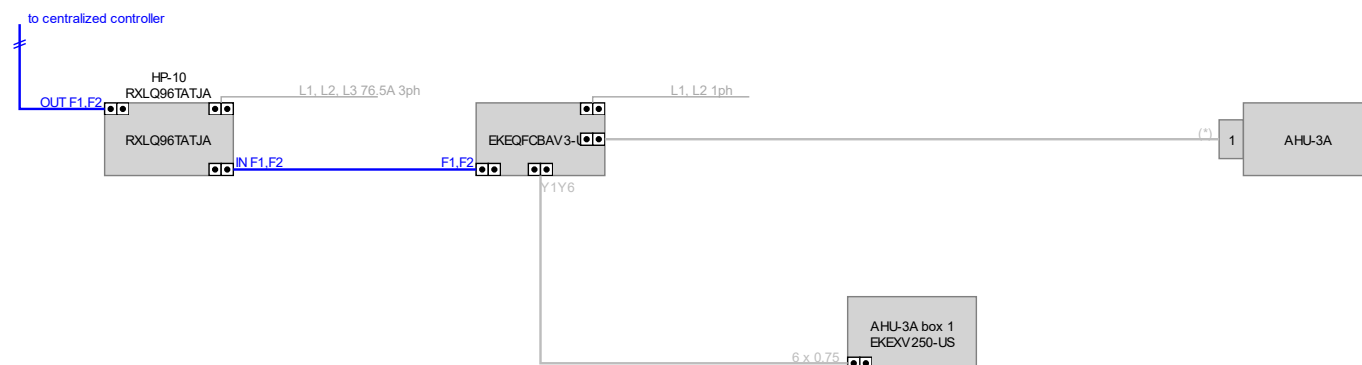
P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## Wiring diagrams

### Wiring HP-10

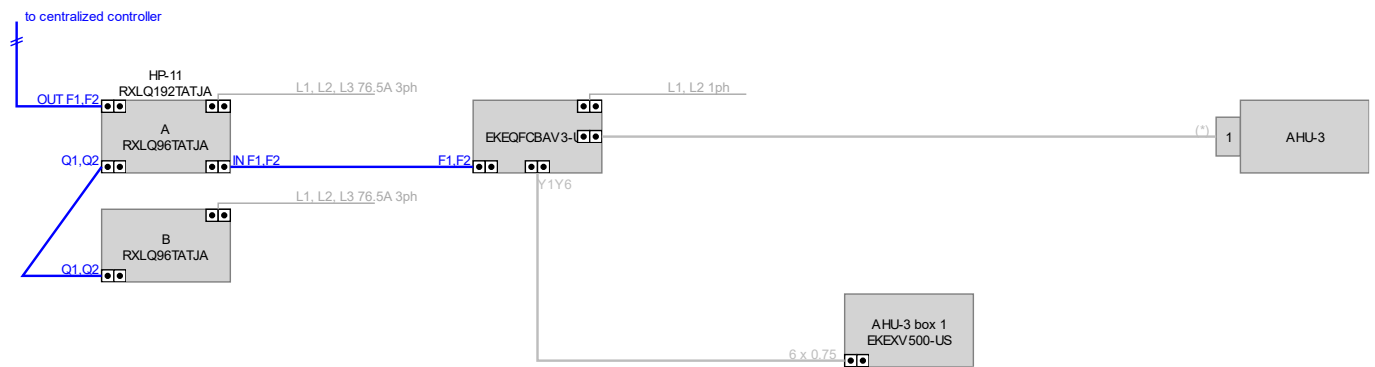


### Remarks

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## Wiring HP-11



## Remarks

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

*Note:*

## VARIABLE REFRIGERANT VOLUME - AIR-COOLED CONDENSING UNIT SCHEDULE

| TAG   | BASIS OF DESIGN<br>(DAIKIN) | NOMINAL<br>TONNAGE | DESCRIPTION                  | COOLING CAPACITY |                              | HEATING CAPACITY |                                | REFRIGERANT CHARGE      |                               |
|-------|-----------------------------|--------------------|------------------------------|------------------|------------------------------|------------------|--------------------------------|-------------------------|-------------------------------|
|       |                             |                    |                              | BTU/h            | AMBIENT<br>DESIGN (°F<br>DB) | BTU/h            | AMBIENT DESIGN<br>(°F DB / WB) | Factory<br>Charge (lbs) | Add'l<br>Refrigerant<br>(lbs) |
| HP-1  | RELQ120TATJA                | 10                 | Air cooled heat recovery (1) | 120,154          | 95.0                         | 136,286          | 12.0 / 10.8                    | 25.8                    | 12.6                          |
| HP-2  | RXLQ96TATJA                 | 8                  | Air cooled heat pump (1)     | 81,276           | 95.0                         | 108,359          | 12.0 / 10.8                    | 25.8                    | 20.3                          |
| HP-3  | RXLQ144TATJA                | 12                 | Air cooled heat pump (2)     | 144,138          | 95.0                         | 168,737          | 12.0 / 10.8                    | 51.6                    | 42.9                          |
| HP-4  | RELQ96TATJA                 | 8                  | Air cooled heat recovery (1) | 95,843           | 95.0                         | 108,913          | 12.0 / 10.8                    | 25.8                    | 11.6                          |
| HP-5  | RXLQ96TATJA                 | 8                  | Air cooled heat pump (1)     | 93,611           | 95.0                         | 113,006          | 12.0 / 10.8                    | 25.8                    | 27.0                          |
| HP-6  | RXLQ72TATJA                 | 6                  | Air cooled heat pump (1)     | 67,504           | 95.0                         | 85,072           | 12.0 / 10.8                    | 25.8                    | 26.2                          |
| HP-7  | RXLQ72TATJA                 | 6                  | Air cooled heat pump (1)     | 67,168           | 95.0                         | 85,715           | 12.0 / 10.8                    | 25.8                    | 19.3                          |
| HP-8  | RXLQ120TATJA                | 10                 | Air cooled heat pump (1)     | 94,754           | 95.0                         | 130,421          | 12.0 / 10.8                    | 25.8                    | 26.4                          |
| HP-9  | RXLQ192TATJA                | 16                 | Air cooled heat pump (2)     | 164,150          | 95.0                         | 212,950          | 12.0 / 10.8                    | 51.6                    | 43.4                          |
| HP-10 | RXLQ96TATJA                 | 8                  | Air cooled heat pump (1)     | 96,120           | 95.0                         | 109,865          | 12.0 / 10.8                    | 25.8                    | n/a                           |
| HP-11 | RXLQ192TATJA                | 16                 | Air cooled heat pump (2)     | 192,365          | 95.0                         | 223,287          | 12.0 / 10.8                    | 51.6                    | n/a                           |

### Schedule Notes:

1. Manufacturer must be certified, listed, and labeled per AHRI 1230.
2. System rating data based on design ambient conditions for cooling and for heating.
3. Submitted performance data must be fully de-rated for all components and accessories, including but not limited to, line length, vertical
4. Condensing units must have fully modulating INVERTER compressors.
5. Condensing units must have have auto changeover functions
6. Demand limiting relay contact must be provided.
7. EEV actuators must be removable from valve body without disturbing the refrigerant system.
8. FCU thermostats must provide +/- 1 degree dead-band set-point and control capability.
9. System shall be provided with i-Touch Manager controller with WEB based software for displaying up to 8 DIII-Net systems with 128 indoor units
10. Manufacturers submittal must include refrigerant piping diagram with pipe diameters, lengths, and refrigerant volume.
11. Substitute manufacturer shall be responsible for additional piping and refrigerant.
12. Contractor to verify piping dimensions.
13. Installing contractor must have successfully completed manufacturers certified installation class within past 36 months.

| ELECTRICAL    |                        |        |       |                            |        |       |                      |        |       | EFFICIENCY (NonDucted/Ducted or Specific Combo) |             |             |             |             | Options and Accessories |
|---------------|------------------------|--------|-------|----------------------------|--------|-------|----------------------|--------|-------|-------------------------------------------------|-------------|-------------|-------------|-------------|-------------------------|
| VOLTAGE-PHASE | MIN CIRCUIT AMPS (MCA) |        |       | MAX OVERCURRENT PROTECTION |        |       | RUNNING CURRENT(RLA) |        |       |                                                 |             |             |             |             |                         |
|               | mod #1                 | mod #2 | total | mod #1                     | mod #2 | total | mod #1               | mod #2 | total | EER                                             | IEER        | COP47       | COP17       | SCHE        |                         |
| 208V/3Ph      | 83.4                   |        | 83.4  | 90.0                       |        | 90.0  | 39.3                 |        | 39.3  | 13.7 / 12.4                                     | 23.4 / 19.6 | 3.98 / 3.51 | 2.25 / 2.25 | 26.7 / 21.4 | EKEQMCBAV3-US (1)       |
| 208V/3Ph      | 76.5                   |        | 76.5  | 80.0                       |        | 80.0  | 36.8                 |        | 36.8  | 14.9 / 12.3                                     | 24.7 / 18.9 | 4.29 / 3.49 | 2.51 / 2.26 | n/a         |                         |
| 208V/3Ph      | 60.8                   | 60.8   | 121.6 | 70.0                       | 70.0   | 140.0 | 20.7                 | 20.7   | 41.4  | 12.7 / 12.4                                     | 22.4 / 18.2 | 3.86 / 3.56 | 2.21 / 2.21 | n/a         | BHFP22P100UA (1)        |
| 208V/3Ph      | 76.5                   |        | 76.5  | 80.0                       |        | 80.0  | 36.8                 |        | 36.8  | 15.3 / 12.5                                     | 24.8 / 19.1 | 4.25 / 3.44 | 2.5 / 2.25  | 25.7 / 19.7 | EKEQMCBAV3-US (1)       |
| 208V/3Ph      | 76.5                   |        | 76.5  | 80.0                       |        | 80.0  | 36.8                 |        | 36.8  | 14.9 / 12.3                                     | 24.7 / 18.9 | 4.29 / 3.49 | 2.51 / 2.26 | n/a         |                         |
| 208V/3Ph      | 60.8                   |        | 60.8  | 70.0                       |        | 70.0  | 20.7                 |        | 20.7  | 15.1 / 13                                       | 24 / 20.4   | 4.37 / 3.73 | 2.52 / 2.31 | n/a         |                         |
| 208V/3Ph      | 60.8                   |        | 60.8  | 70.0                       |        | 70.0  | 20.7                 |        | 20.7  | 15.1 / 13                                       | 24 / 20.4   | 4.37 / 3.73 | 2.52 / 2.31 | n/a         |                         |
| 208V/3Ph      | 83.4                   |        | 83.4  | 90.0                       |        | 90.0  | 39.3                 |        | 39.3  | 13.5 / 12.2                                     | 23.3 / 19.4 | 4.05 / 3.56 | 2.27 / 2.26 | n/a         |                         |
| 208V/3Ph      | 76.5                   | 76.5   | 153.0 | 80.0                       | 80.0   | 160.0 | 36.8                 | 36.8   | 73.6  | 12.3 / 12.5                                     | 22 / 18.8   | 3.9 / 3.61  | 2.22 / 2.16 | n/a         | BHFP22P100UA (1)        |
| 208V/3Ph      | 76.5                   |        | 76.5  | 80.0                       |        | 80.0  | 36.8                 |        | 36.8  | 14.9 / 12.3                                     | 24.7 / 18.9 | 4.29 / 3.49 | 2.51 / 2.26 | n/a         | EKEQFCBAV3-US (1)       |
|               |                        |        |       |                            |        |       |                      |        |       |                                                 |             |             |             |             | BHFP22P100UA (1),       |
| 208V/3Ph      | 76.5                   | 76.5   | 153.0 | 80.0                       | 80.0   | 160.0 | 36.8                 | 36.8   | 73.6  | 12.3 / 12.5                                     | 22 / 18.8   | 3.9 / 3.61  | 2.22 / 2.16 | n/a         | EKEQFCBAV3-US (1)       |

14. Contractor to furnish and install insulation on refrigerant piping.
15. Manufacturers Representative must have local stock of parts and factory certified technician on staff.
16. Manufacturers Representative shall provide proof of ongoing installation training at their local facility for at least the past 5 years.
17. Mechanical contractor shall be responsible for all direct costs
18. Manufacturers Representative shall provide proof of continuous sales and support of their products for at least 15 years.
19. Manufacturer must provide 10 years parts warranty on all FCUs, Condensing Units, and Mode Changeover Devices. Warranty conditions must be clarified during submittal phase.
20. 3-phase Air cooled condensing units must have published performance data with 200% indoor connected capacity.
21. Condensing units must be furnished with protective coil coating to withstand ASTM B117 salt spray test for a minimum of 1000 hours.
22. Manufacturer must certify and submit system performance at extreme conditions of 122 degrees FDB ambient in cooling mode and -22 degrees FWB in heating mode.
23. Manufacturer must provide 10 years parts warranty on all FCUs and Condensing Units. Warranty conditions must be clarified during submittal phase.