

DAIKIN 2-DAY TRAINING DAY 1-PRODUCT INTRO AND APPLICATIONS & INSTALLATION

TSM PHONE QUEUE: 888-823-4357



NATE ACCREDITATION

Please email Richardhilke@virginiaair.com with your Nate credentials



WHY DAIKIN?

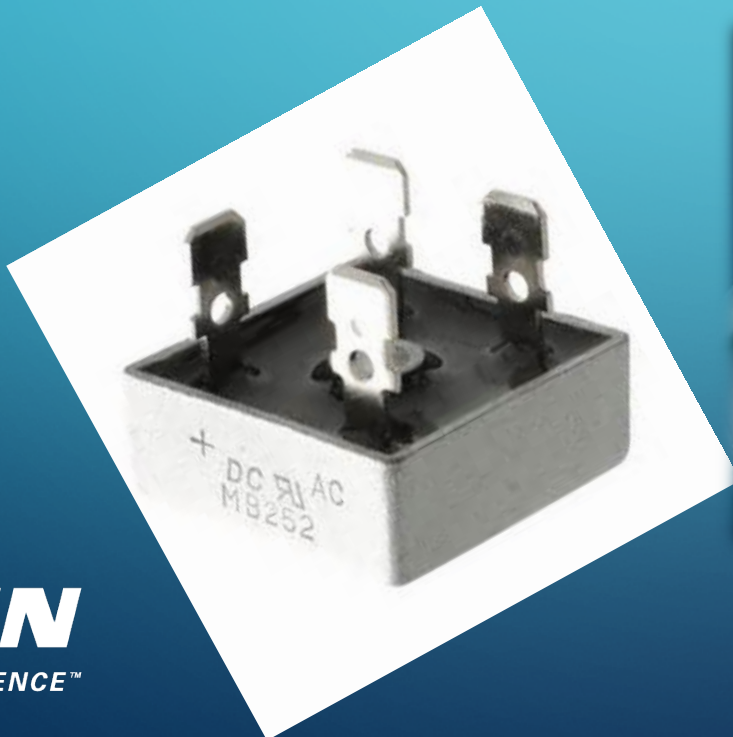
- **Daikin Proprietary Compressor Design:** Swing compressor, more robust, reliable and efficient
- **Factory Backed Warranty Labor Plans:** Labor plans competitively priced (Single Zone System)
- **Quaternity Models:** Heat. Cool. Dehumidify. Clean Air—Ideal solution for challenging, hot, humid, or poorly ventilated environments such as basement, garage, or attic conversion
- **Daikin D-Checker Service Monitoring Tool:** Gives visibility to all system data in an easy to use display platform (Bluetooth & Hardwired options available)
- **Emura Models:** Stylish indoor units available in Multi & Single port applications
- **Aurora Models:** Enhanced heating and cooling capacity, with 100% heating capacity down to 5 degrees and 100% cooling capacity up to 104 degrees
- **Vista Ceiling Cassette:** True 2' x 2' installation giving flexibility in acoustic ceilings
- **FDMQ:** Ducted concealed unit capable of up to 0.6 ESP
- **DZK:** Zoning for a one to one unit, allows flexibility without installing a multiport system
- **Multi-Zone Systems:** No branch port box required until you get to the 8 zone multi-zone

DAIKIN INVERTER TECHNOLOGY



HOW DOES AN INVERTER COMPRESSOR WORK?

- Traditional systems are 1 speed – On/Off
- Inverter systems have VFD's that incorporate an adjustable electrical inverter to control the speed of the motor inside the compressor.
- The variable-frequency drive uses a rectifier to convert (AC) to (DC).
- It can be metered much easier.



COMPRESSOR SUMMARY

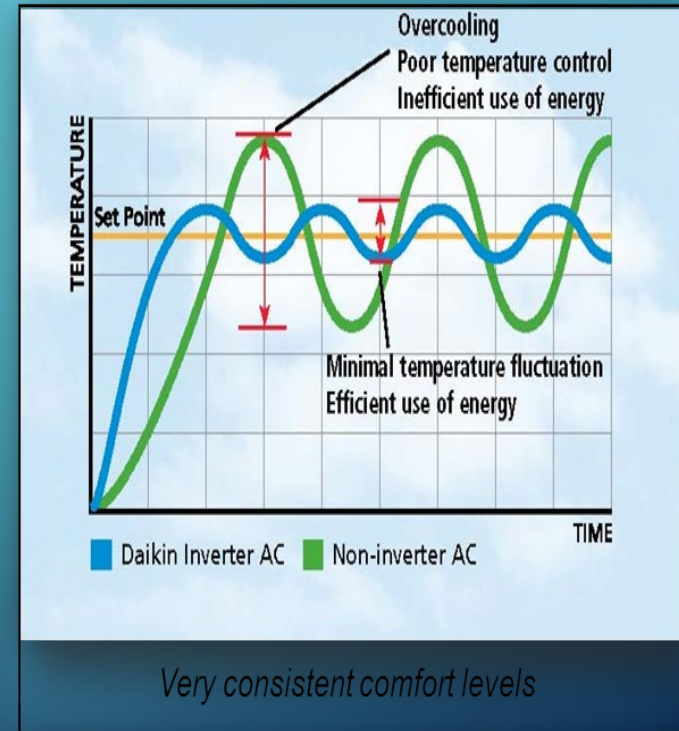
- An inverter is a variable speed drive that changes the electrical frequency being fed to a motor.
- Higher heating capacities due to inverter controlled compressor - up to 7200 RPM vs. 3200-3500 RPM.
- Example of btu/h range: RXN1 2NMVJU (4,400 ~ 14,000)
- Think of the inverter drive similar to a gas pedal.



INVERTER BENEFITS

- High Efficiency in Part-Load conditions
- **Very low startup amperage**
- **No “light flicker”**
- Lubrication of bearings increases before speed increase
- **System pressures increase gradually reducing noise and stress on piping**
- Quiet compressor startup
- **Better Dehumidification**
- **Fewer start/stop cycles**
- As room temperature nears set point capacity is automatically “throttled down”

*Capacity is adjusted as the load changes
Low Ambient control - Standard*



DAIKIN SWING COMPRESSOR

- Friction and refrigerant leakage are suppressed
- Improved efficiency
- Increases energy savings
- Increased life time

Competitors: *Rotary*



Daikin: *Swing*



Daikin Swing Compressor Features and Benefits

Features

Smooth rotation, little friction

Smooth piston motion

Few parts rubbing each other

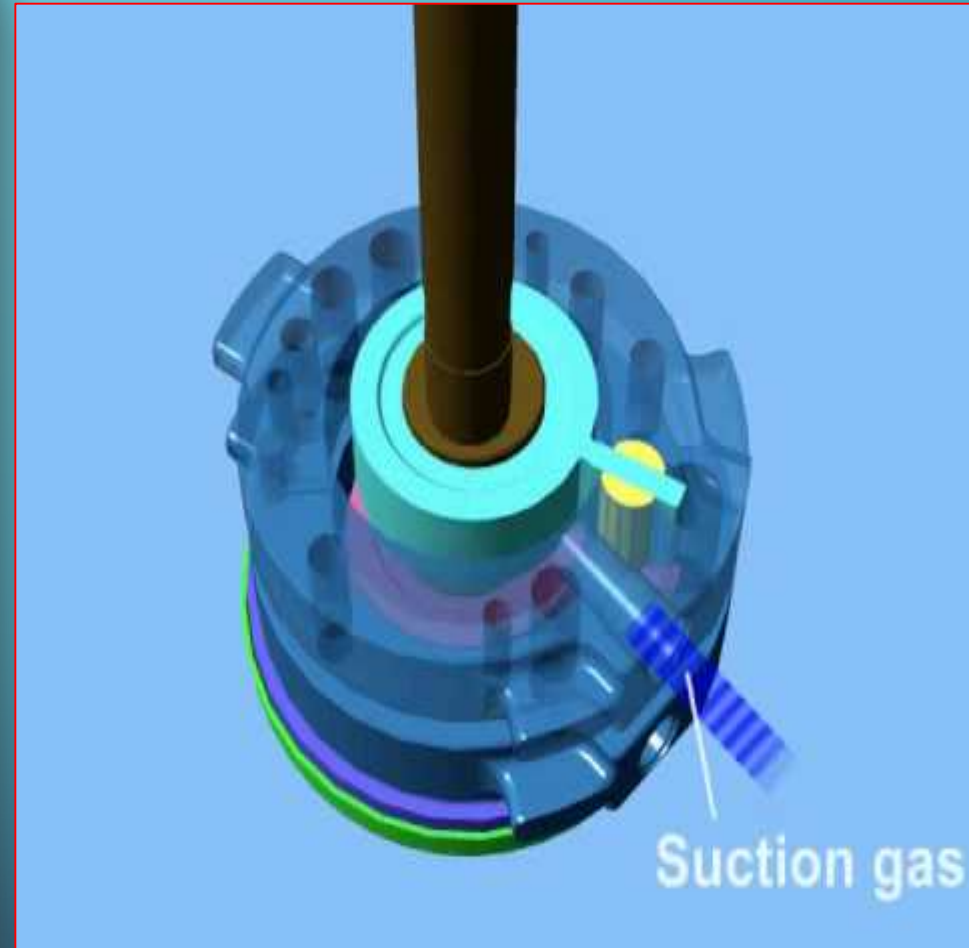
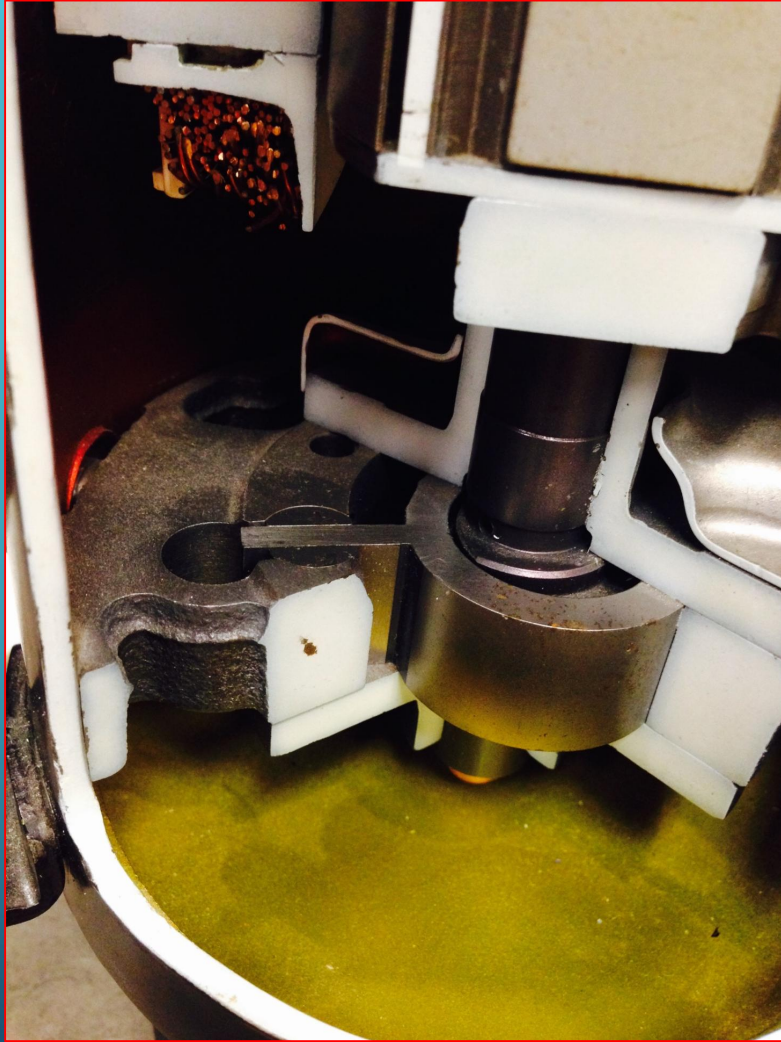
Benefits

High operation efficiency, energy savings

Low vibrations, low sound levels

High performance, high reliability

DAIKIN SWING COMPRESSOR



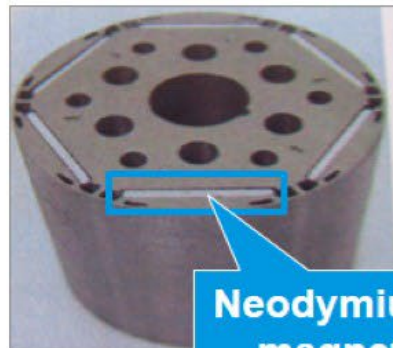
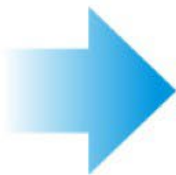
Comparison

Rotary compressor
Swing compressor

Reluctance Digitally Commutated (DC) Motor



Rotor



Neodymium magnet

Neodymium magnet:
Increased to 6 pieces.



**Rotation of motor is smoother
for energy savings.**



Rotor

Distributed Winding



Stator



Swing

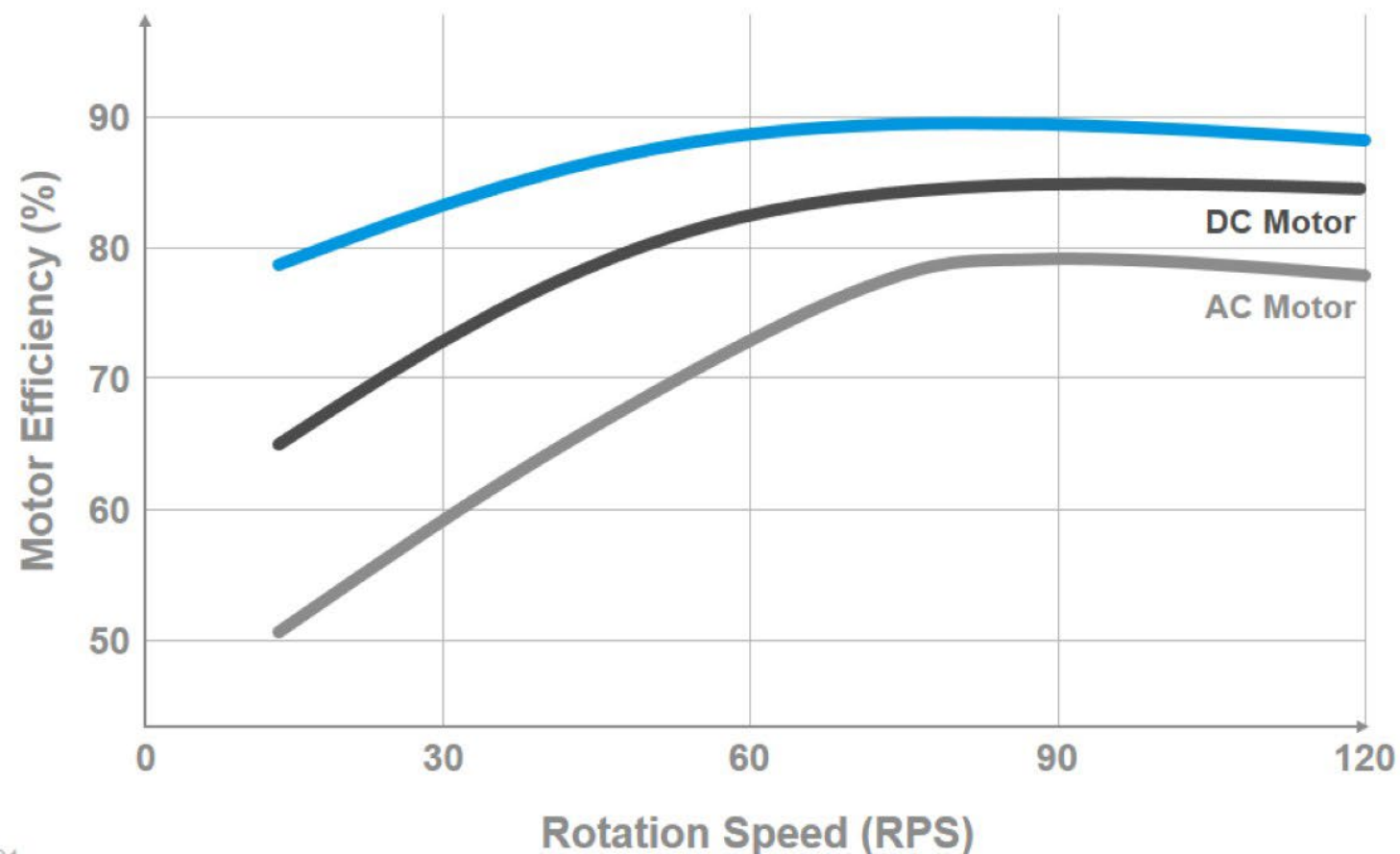
Concentrated Winding

Heat transfer coil:
Distributed Winding

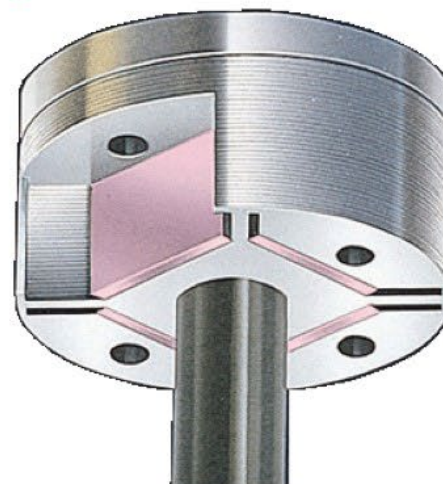


**Concentrated winding.
The heat is reduced.**

Reluctance DC Motor

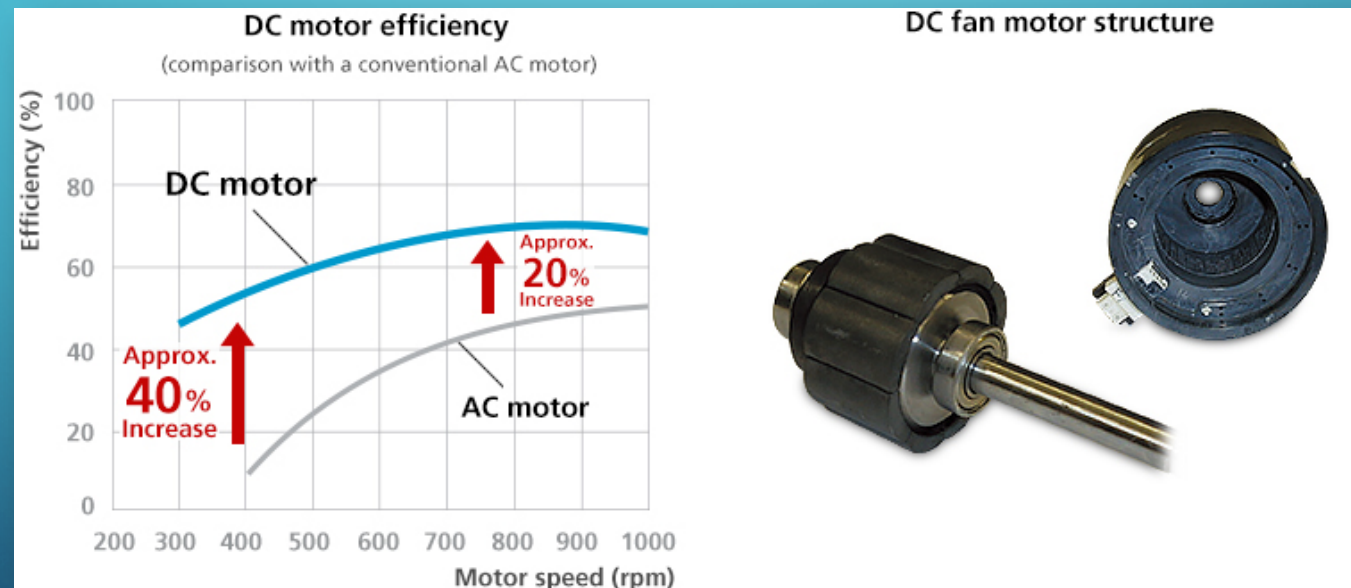


Optimised DC Motor



CONDENSER FAN MOTOR SUMMARY

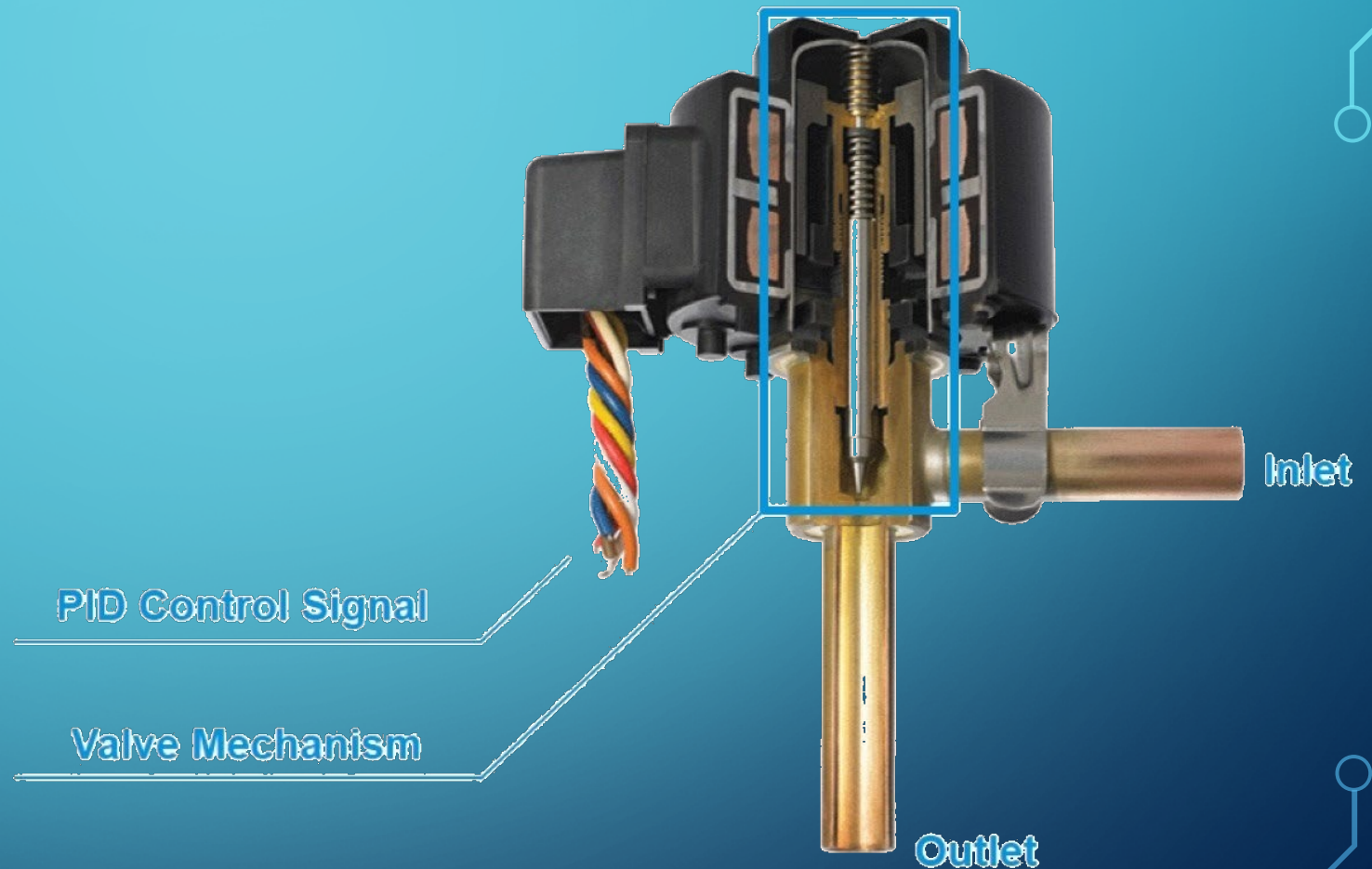
- All Daikin systems utilize DC driven condenser fan motor
- Quiet rotation
- High efficient
- Variable speed Fan for Variable Speed Compressor



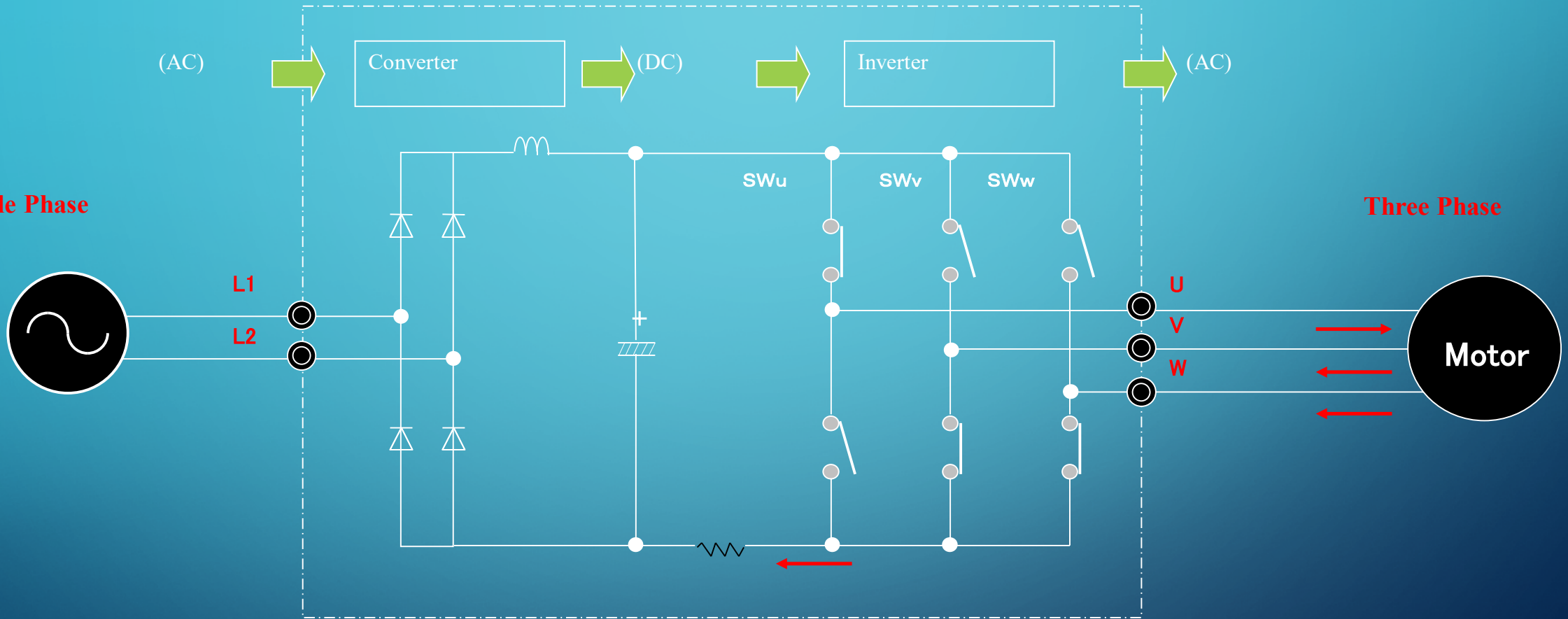
Electronic Expansion Valves - EEV

The Electronic Expansion Valve continuously adjusts the refrigerant volume in response to load variations

- Provides modulating control of up to 2,000 pulses (steps)
- Fast, accurate control response eliminates temperature swings
- Stepper motor is replaceable without recovering refrigerant



Single Phase



Three Phase

Product Introduction & Application

1. Single Zone Ductless
2. Multi-Zone Ductless
3. Sky Air light Commercial
4. Controllers and Accessories
5. 8-Zone Mini Split Selection Tool
6. Daikin Resources

DAIKIN APPLICATIONS



DAIKIN APPLICATIONS

- Multiple zones
- Basements and attics

- Entire floors
- New construction



DAIKIN KEY WORDS

- Inverter Compressor
- DC Fan Motors
- Split and Multi-Split systems
 - One – to – One
 - Up to 8 Indoor Fan Coils
 - Include Daikin Inverter Ducted
- SkyAir Systems
 - Split systems for Commercial Use
 - One-to-One only
 - Fan Coils – Wall, Slim, Cassette



Single & Multi Split, SkyAir, & Quaternity

SkyAir



Quaternity



LV Series



MXS Series



17 & 19 Series



3

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NOMENCLATURE OUTDOOR

Single and Multi-Zone Split Systems

How to Read Model Numbers – Outdoor Units

SINGLE-ZONE

R X S 09 L VJ U

UNIT CATEGORY

R: Air-Cooled
Outdoor Unit

STANDARD COMPATIBILITY

U: United States

POWER SUPPLY

VJ: 1-Phase 208/230V

SYSTEM TYPE

X: R-410A Heat Pump
K: R-410A Cooling Only
G: R-410A QUATERNITY

MAJOR DESIGN CATEGORY

CAPACITY

EFFICIENCY LEVEL

N: Standard S: High
_: Mid (Blank) G: Highest
L: Low Ambient

09: 9,000 BTU/h
12: 12,000 BTU/h
15: 15,000 BTU/h
18: 18,000 BTU/h
24: 24,000 BTU/h
30: 30,000 BTU/h
36: 36,000 BTU/h

MULTI-ZONE

4 M X S 36 NM VJ U

SYSTEM TYPE

2: 2-Port
3: 3-Port
4: 4-Port
R: 8-Port
5: 5-Port

STANDARD COMPATIBILITY

U: United States

POWER SUPPLY

VJ: 1-Phase 208/230V

UNIT CATEGORY

M: Multi-Split Outdoor
Unit (Air-Cooled)

MAJOR DESIGN CATEGORY

CAPACITY

SYSTEM TYPE

X: R-410A Heat Pump

18: 18,000 BTU/h
24: 24,000 BTU/h
36: 36,000 BTU/h
48: 48,000 BTU/h

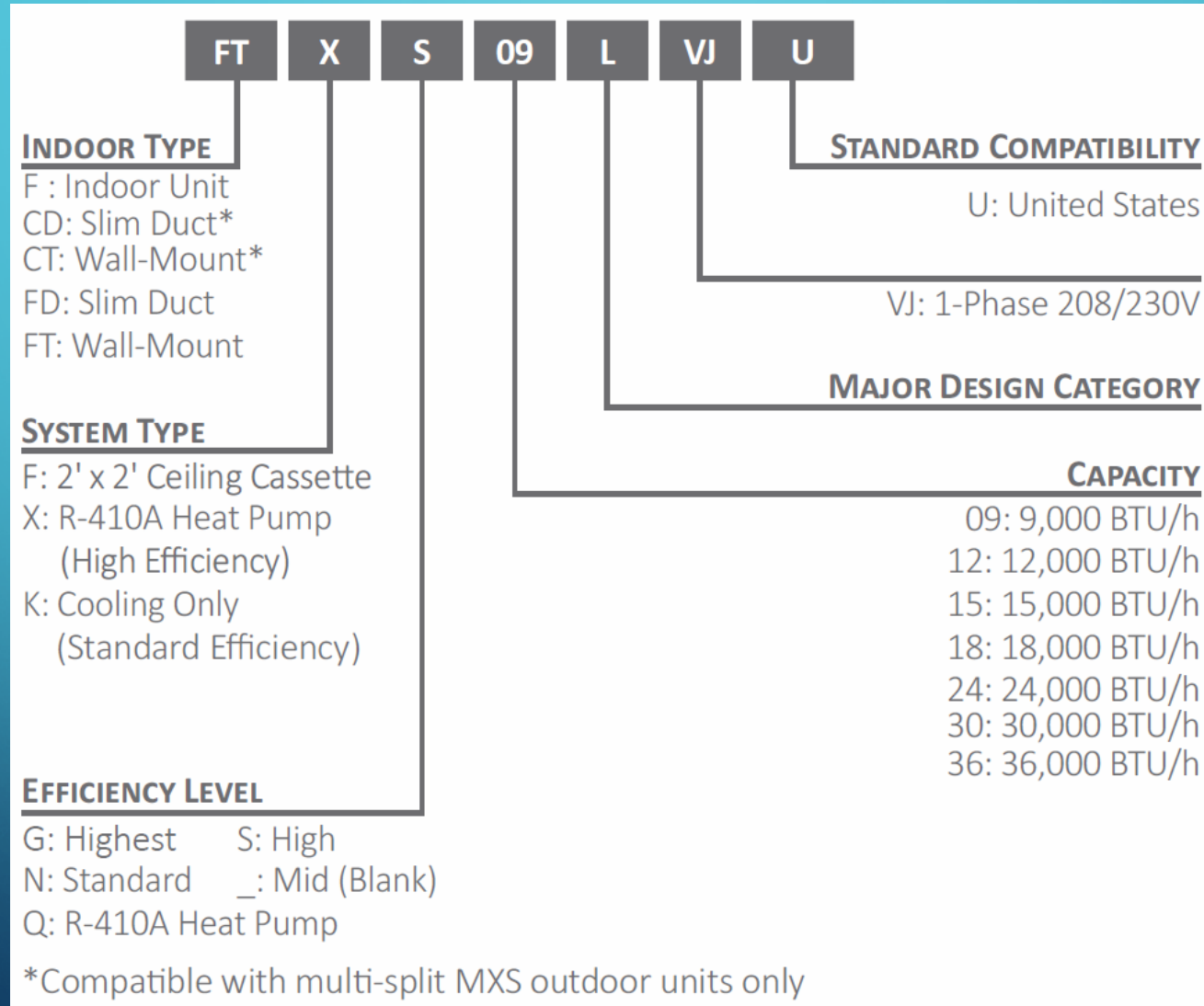
EFFICIENCY LEVEL

S: High
L: Low Ambient

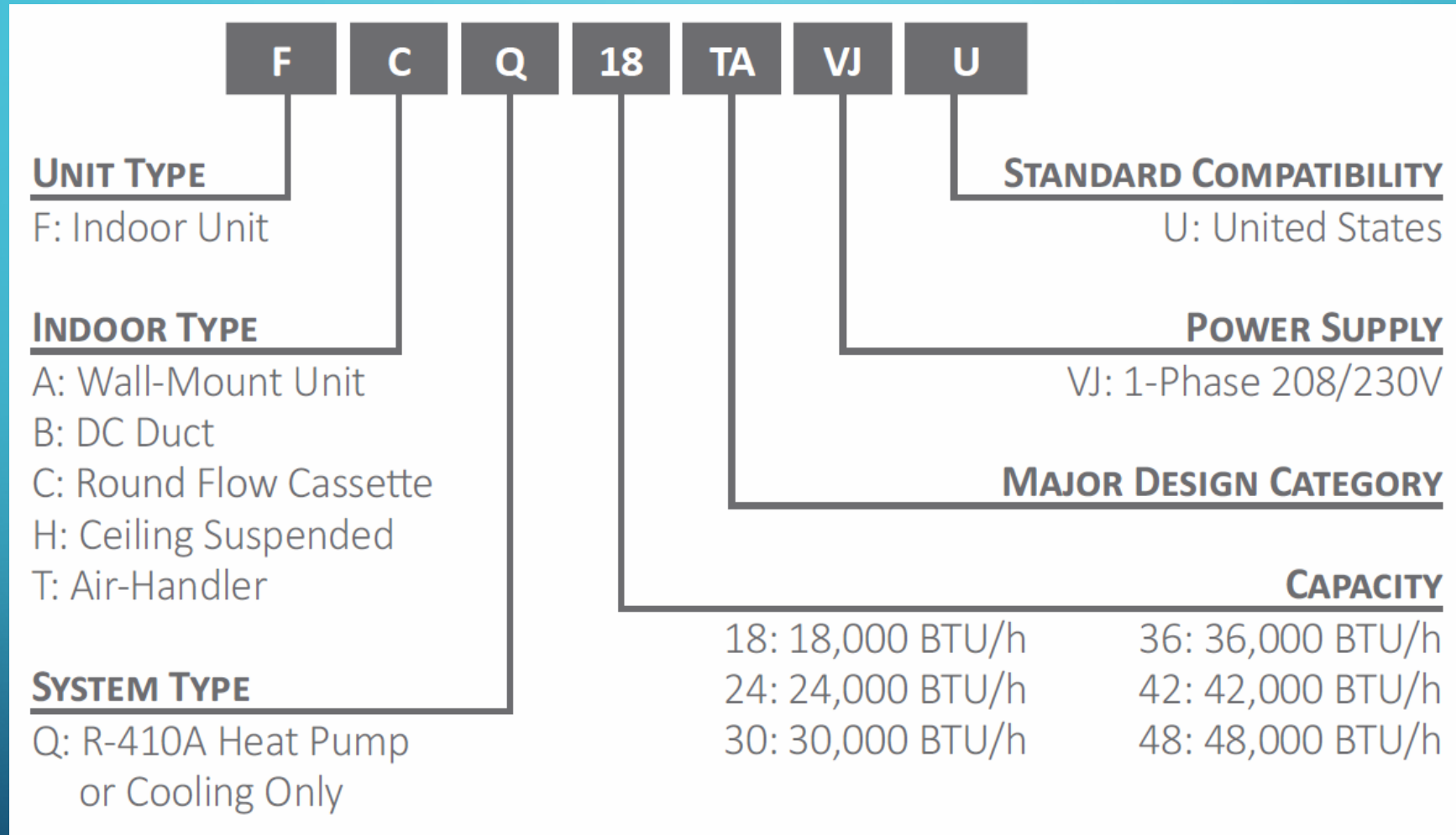
NOMENCLATURE INDOOR

Single and Multi-Zone Split Systems

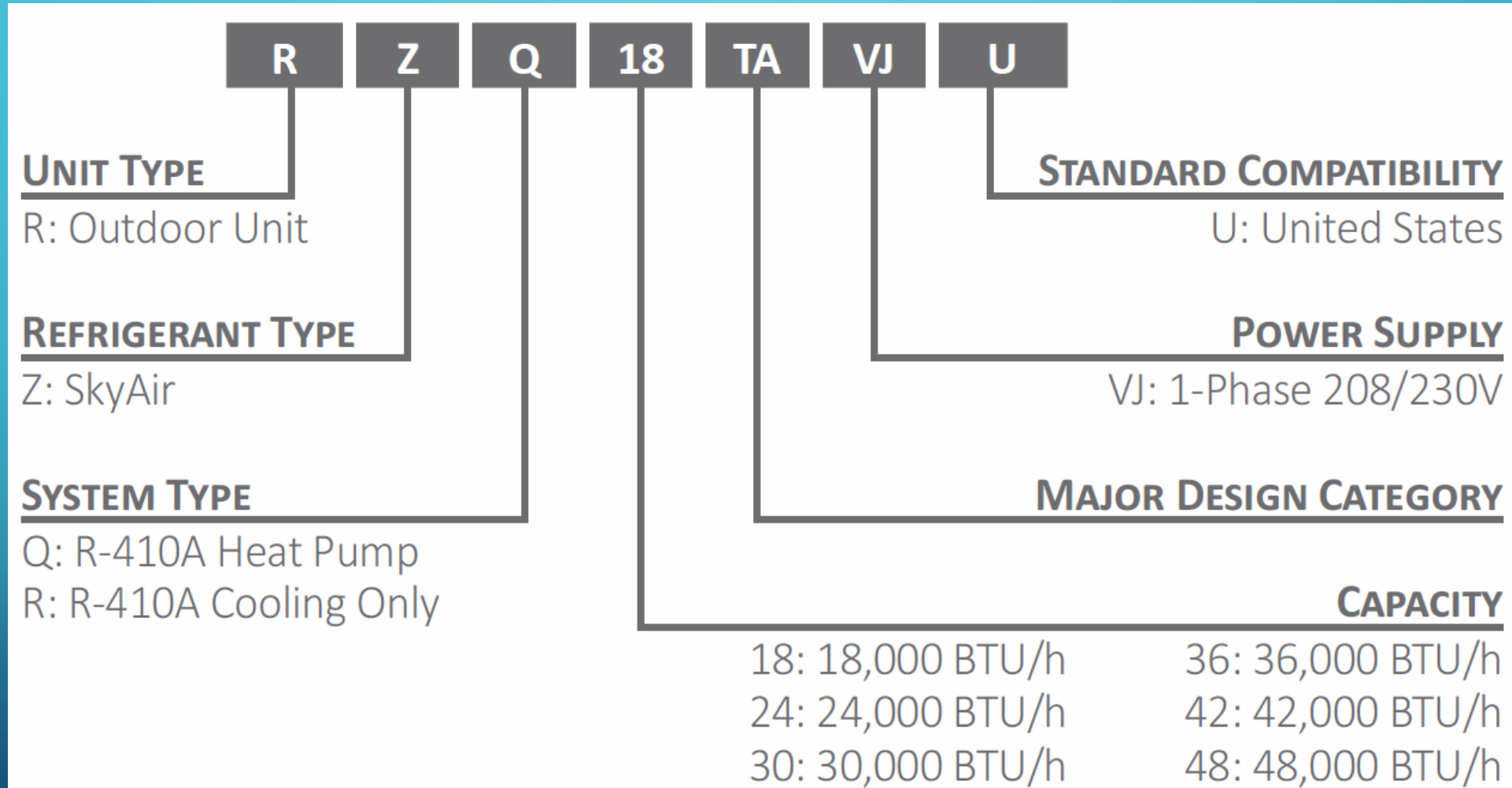
How to Read Model Numbers – Indoor Units



SKYAIR NOMENCLATURE



SKYAIR NOMENCLATURE



17 Series 9k – 24k One-to-One

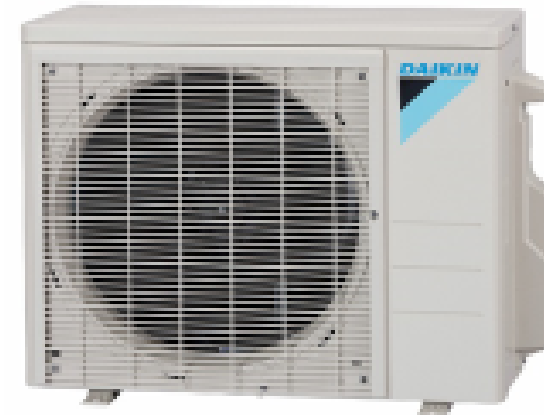
- 9, 12, 18, 24k Btu/h
 - Heat Pump
 - Low ambient down to 50 degrees
 - Heat, Cool, Dry, Auto, Fan Modes
 - Pre-charged for up to 25 feet of liquid line
 - 66ft or 98ft of piping length
-
- **Handheld remote only!!!**
 - **Clock on remote 24hr only**



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19 Series 9k – 24k One-to-One

- Heat Pump or Cooling Only
- Low ambient down to ZERO degrees
- Heat, Cool, Dry, Auto, Fan Modes
- Pre-charged for up to 33 feet of liquid line
- 66 or 98ft of piping length

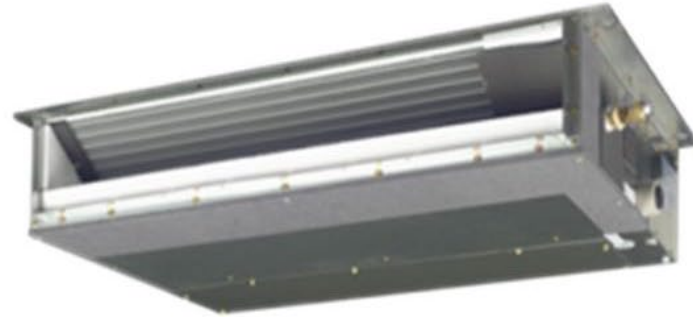


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DAIKIN LV SERIES – (9-24K)

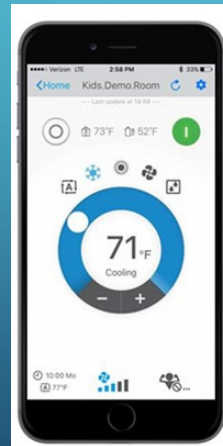
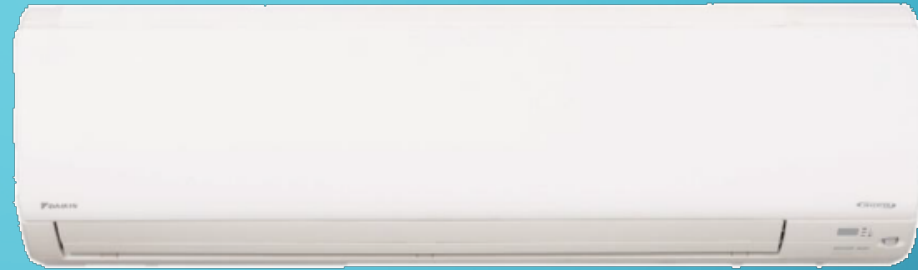
UP TO 24.5 SEER

- 3-D Airflow wall mount unit : 9, 12, 15, 18, 24k Btu/h
- Slim duct indoor unit: 9, 12k Btu/h
- Up to 24.5 SEER and 12.5 HSPF
- Intelligent eye occupancy sensor
- Improved indoor air quality



LV/NV SERIES 2.5 & 3 TON ONE-TO-ONE UP TO 17.5 SEER

- 30k – 36k
- Heat Pump or Cooling Only
- Extreme Low ambient down to ZERO degrees (LV only)
- Heat, Cool, Dry, Auto, Fan Modes
- Pre-charged for up to 33 feet of liquid line
- 98ft of piping length



DAIKIN Low Ambient Quick Reference Chart

| | Cooling Out of Box | Heating Out of Box | Activate Low Amb Setting | Cooling After Setting | Cooling With Wind Baffle | Cooling Unit Shut Off |
|------------------------------------|-----------------------|-----------------------|--------------------------|--------------------------|--|--------------------------|
| KE Series | | | | | | |
| 09/12K BTU | 50-115°F | 5-65°F | Cut Jumper J3 | 14-115°F | 0-115°F | -4°F |
| 15/18/24K BTU | 50-115°F | 5-65°F | Cut Jumper J6 | 14-115°F | 0-115°F | -4°F |
| LV Series Wall Mount | | | | | | |
| 09/12K BTU | 50-115°F | 5-65°F | Turn on Switch B | 14-115°F | 0-115°F | -4°F |
| 15/18K BTU | 50-115°F | 5-65°F | Turn on Switch B | 14-115°F | 0-115°F | -4°F |
| 24K BTU | 50-115°F | 5-65°F | Turn on Switch B | 14-115°F | 0-115°F | -4°F |
| LV Series Ducted | | | | | | |
| 09/12K BTU | 50-115°F | 5-75°F | Turn on Switch B | 14-115°F | 0-115°F | -4°F |
| Quaternity | | | | | | |
| 09/12/15K BTU | 14-109°F | -4 -75°F | N/A | N/A | N/A | -4°F |
| Multi-Split Wall, Ducted, Cassette | | | | | | |
| 2,3,4MXS | 50-115°F | 5-75°F | N/A | N/A | N/A | N/A |
| Sky Air LV Series | | | | | | |
| 30/36K BTU | 50-115°F | 5-75°F | Turn on Switch B | 14-115°F | 0-115°F | -4°F |
| | | | | | Optional kit for Ultra Low ambient down to -40°F | |
| Sky Air FAQ | | | | | | |
| 18/24K BTU | 23-115°F | 0-60°F | N/A | N/A | 0-115°F | N/A |
| Sky Air FBQ | | | | | | |
| 18/24/30/36/42 | 23-115°F | 0-60°F | N/A | N/A | 0-115°F | N/A |
| Sky Air FCQ | | | | | | |
| 18/24/30/36/42 | 23-115°F | 0-60°F | N/A | N/A | 0-115°F | N/A |
| Sky Air FHQ | | | | | | |
| 18/24/30/36/42 | 23-115°F | 0-60°F | N/A | N/A | 0-115°F | N/A |
| Sky Air FTQ | | | | | | |
| 18/24/30/36/42 | 23-115°F | 0-60°F | N/A | N/A | 0-115°F | N/A |

October 1, 2014

DAIKIN AURORA™ SERIES – SINGLE ZONE

Daikin AURORA was designed to provide high heating performance in cold climates.



Example **15K BTU System** (FTX15NMVJU + RXL15QMVJU)

21.3k btu's Heating @ 23°

18.3k btu's Heating @ 5°

14.8k btu's Heating @ -4°

DAIKIN AURORA™ SERIES – SINGLE ZONE

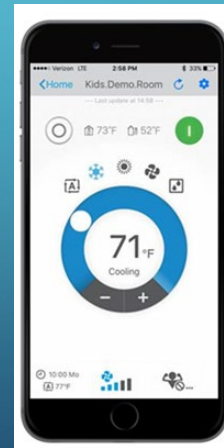
Daikin AURORA also has high performance in hot climates.



15k btu's Cooling @ 95°
15k btu's Cooling @ 104°
13.47k btu's Cooling @ 115°

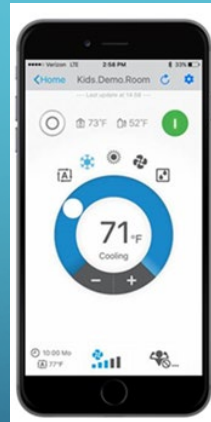
1:1 AURORA WALL MOUNT (HIGH HEAT)

- Up to 100% Capacity Down to 5°F
- 9k, 12k, 15k BTU



1:1 AURORA FLOOR STANDING/LOW WALL (HIGH HEAT)

- Up to 100% Capacity Down to 5°F
- 9k, 12k, 15k BTU

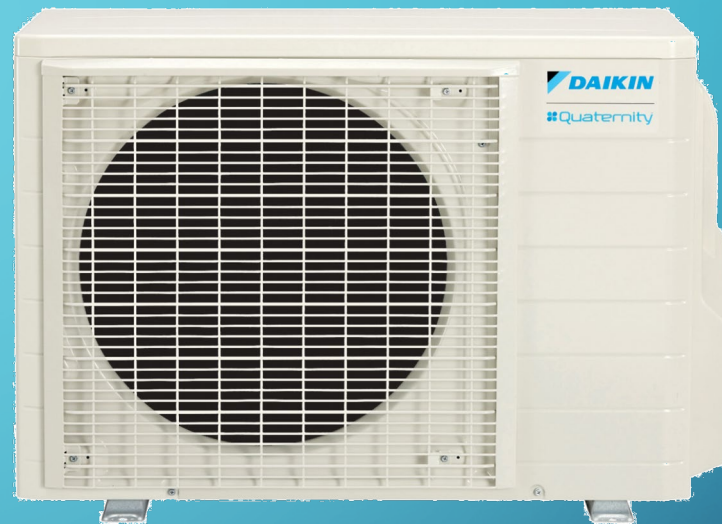
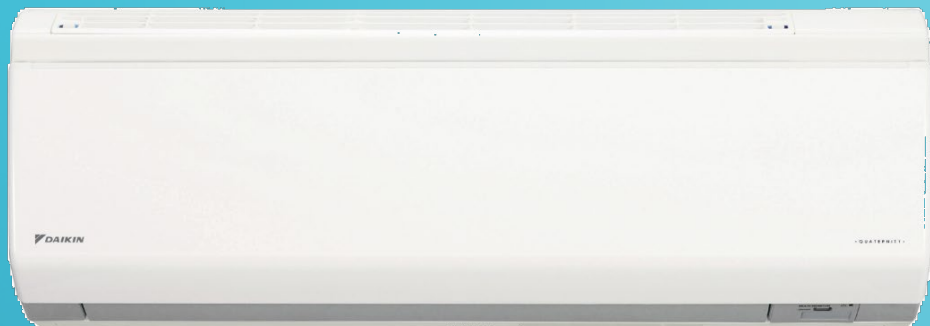


DAIKIN EMURA – (9,12,18K)

UP TO 18 SEER

- Up to 18 SEER | Up to 10 HSPF
- Indoor Sound Pressure as low as 19 dB(A)
- Stylish silver or pure matte white finish
- 2-Area Intelligent Eye infrared sensor
- Comfort Mode
- Titanium Apatite Photocatalytic Air Purifying Filter for improved indoor air quality.
- Compatible with Daikin Comfort App (adaptor required)



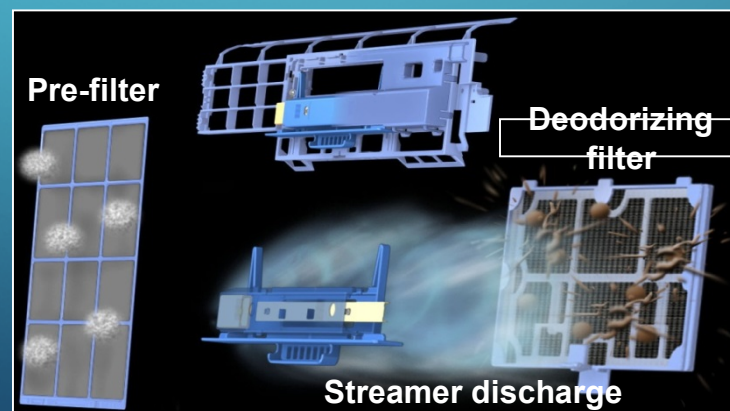
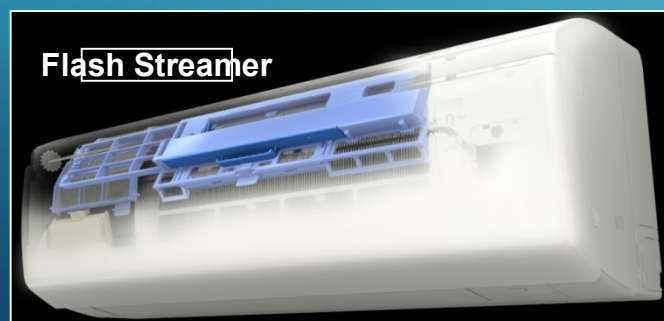
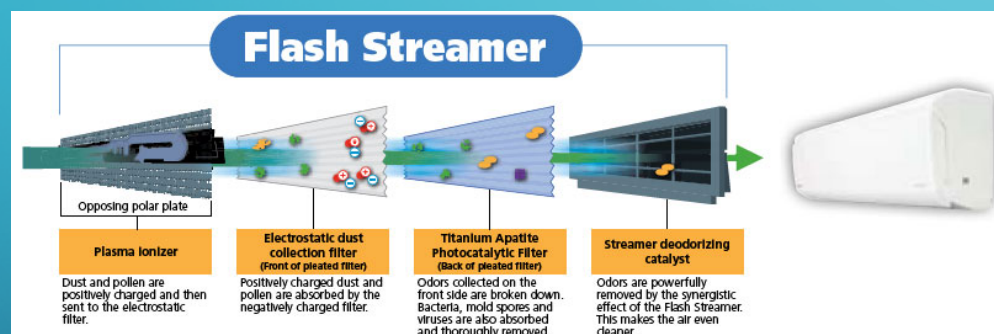


- 9, 12, 15k Btu/h
- **Up to 26.1 SEER**
- Humidity control to a relative set point
- Advanced filtration: allergens, odors and bacteria
- Low ambient operation to -4° F



BUILT-IN AIR PURIFICATION

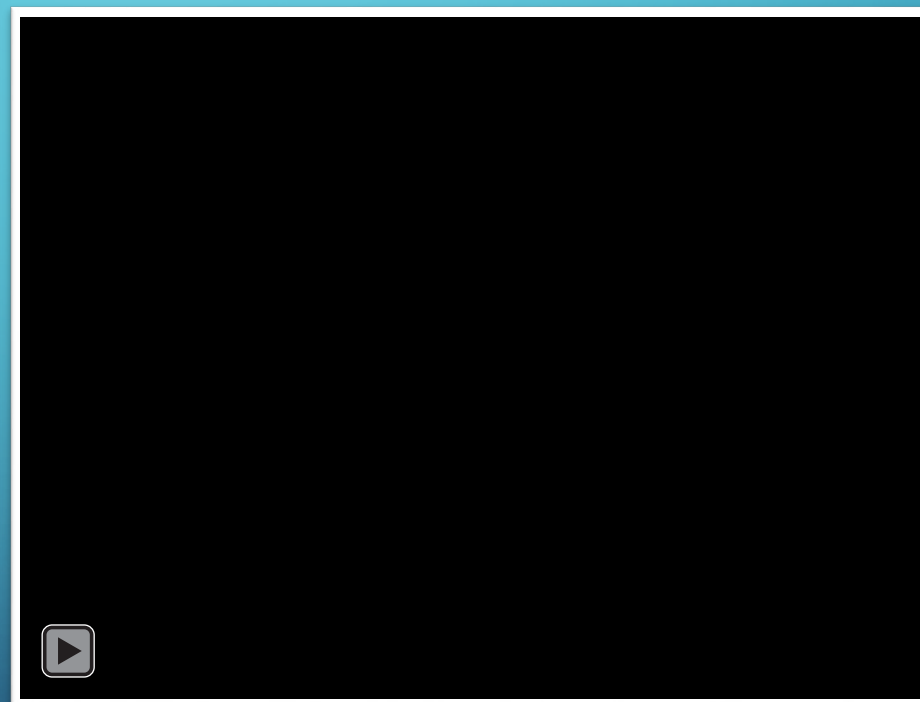
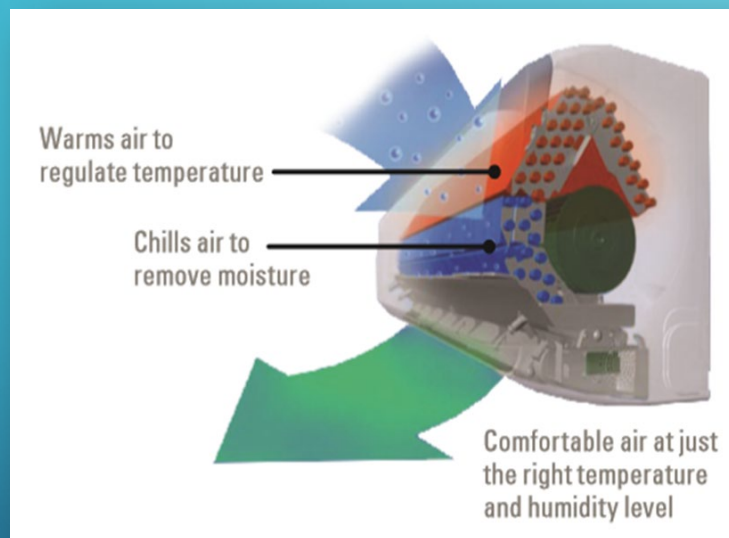
| FEATURES | FUNCTIONS | BENEFITS |
|--|---|----------------------------------|
| Flash Streamer Air Purification System | Discharges electrons that analyze and remove unwanted indoor air pollutants | Cleaner and healthier indoor air |



**Handheld
Remote
Only**

Built-in Hot-Gas-Reheat Dehumidifier

| FEATURES | FUNCTIONS | BENEFITS |
|------------------|--|--------------------|
| Dehumidification | Dehumidifies while maintaining temperature | Year-round comfort |



MXS Series

- Outdoor unit 18k, 24k, 36k, 48k, Btu/hr
 - Up to 19.5 SEER | 9.3 HSPF
- Inverter drive technology
- Optional wired remote controllers



Wireless Remote
ARC452



Wireless Remote
BRC7E830 (Optional)



Wired Controller
BRC944B2 (Optional)



Navigation Remote
BRC1E72 - (FFQ Only)



DaikinOne



ARC480A6- F15 SEER HP
ARC480A7- F15 SEER AC
ARC480A8- F19 SEER HP
ARC480A9- F19 SEER AC



Quaternity
Wireless Remote
ARC447A3



FTXS – Wall Mount



CTXS – Wall Mount



FDXS/CDXS
Slim Duct
FDMQ



FVXS
Floor Unit



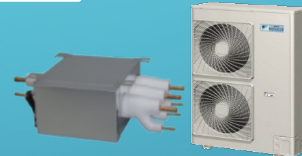
FFQ- 2x2
Ceiling Cassette



MXS Series

MXS – MULTI-ZONE SYSTEMS

| | 2 Zone | 3 Zone | 4 Zone | 5 Zone | 8 Zone |
|--------------------|--------|--------|--------|--------|--------|
| | 2MXS | 3MXS | 4MXS | 5MXS | RMXS48 |
| Nominal Capacity | 18,000 | 24,000 | 36,000 | 48,000 | 48,000 |
| Connected Capacity | 24,000 | 39,000 | 48,000 | 58,000 | 62,000 |



Whole Home Solutions

- Up to 18.9 SEER, 12.7 EER, 12.5 HSPF
- Multiple Styles - wall mounted, floor/low wall mount, slim duct and ceiling cassette
- Maximum Comfort and Control - up to 8 zones with individual control

Indoor Units



CTXG
Wall Mount
09,12,18



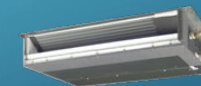
FDMQ Ducted Concealed
09,12,15,18,24



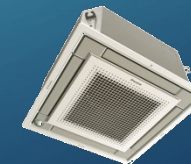
CTXS/FTXS
Wall Mount
07,09,12,15,18,24



FVXS
Floor Mount
09,12,15,18



CDXS/FDXX
Slim Duct
07,09,12,15,18,24



FFQ
2'x2' Ceiling Cassette
09,12,15,18

DAIKIN AURORA™ - MULTI-ZONE SYSTEMS

| | 2 Zone | 3 Zone | 4 Zone |
|--------------------|--------|--------|--------|
| | 2MXL | 3MXL | 4MXL |
| Nominal Capacity | 18,000 | 24,000 | 36,000 |
| Connected Capacity | 24,000 | 39,000 | 48,000 |

Whole Home Solutions

- Up to 18.0 SEER, 12.7 EER, 12.5 HSPF
- Up to 100% rated heating capacity @ 5°F
- Up to 100% cooling capacity @ 104°F

Example 1.5-Ton System (2MXL18 & 2 FTXS09's)

36k btu's Heating @ 43°
19k btu's Heating @ 5°
11.36k btu's Heating @ -13°

24k btu's Cooling @ 95°
22.88k btu's Cooling @ 104°
19.59k btu's Cooling @ 115°

Indoor Units



CTXG
Wall Mount
09,12,18



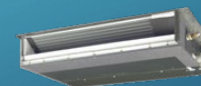
FDMQ Ducted
Concealed
09,12,15,18,24



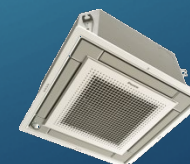
CTXS/FTXS
Wall Mount
07,09,12,15,18,24



FVXS
Floor Mount
09,12,15,18



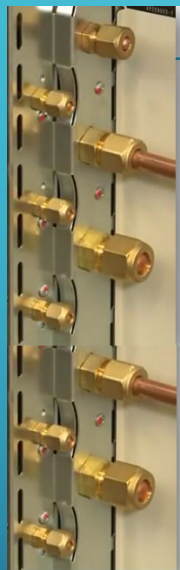
CDXS/FDXX
Slim Duct
07,09,12,15,18,24



FFQ
2'x2' Ceiling Cassette
09,12,15,18

5MXS MULTI SPLIT CONDENSERS

5 Zone



- **5MXS48MVJU 4 Ton**
- **Up to 58,000 BTU fan coil combination capacity**
- **No Branch boxes necessary!**



MULTI PORT LINESET LENGTH GUIDELINES



2 Port System

- 82ft per port -

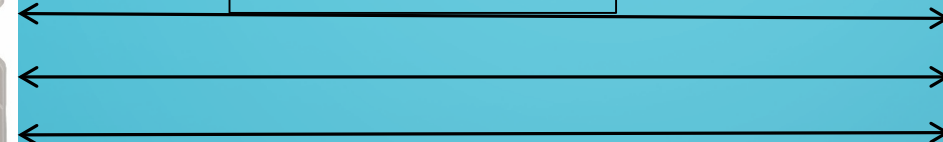


**Cannot
Exceed
Total 164ft**



3 Port System

- 82ft per port -



**Cannot
Exceed
Total 230ft**



4 Port System

- 82ft per port -



**Cannot
Exceed
Total 230ft**



5 Port System

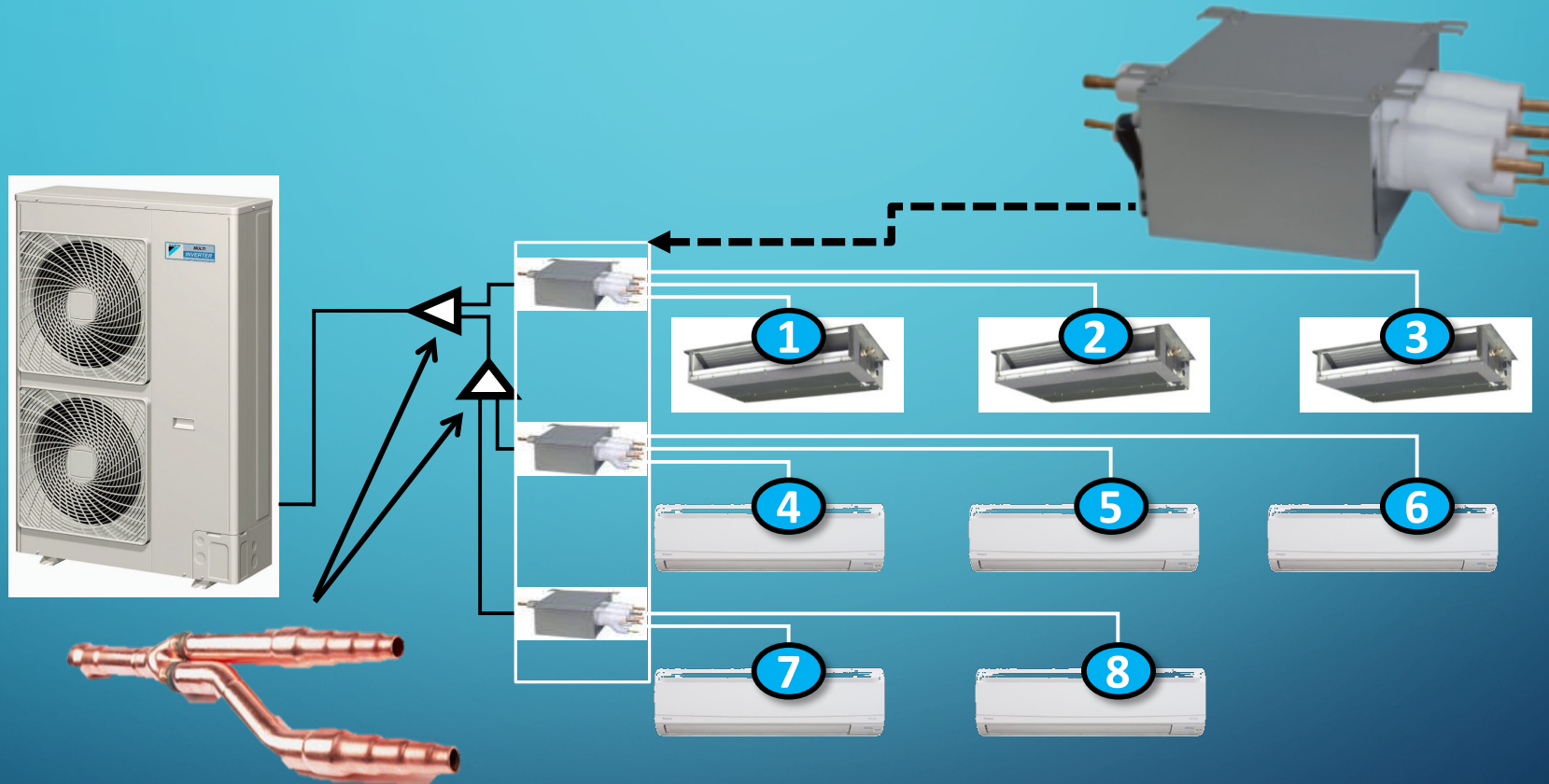
- 98ft per port -



**Cannot
Exceed
Total 262ft**

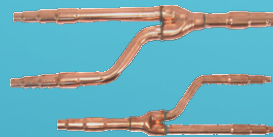
RMXS SERIES (8-ZONE) 48K – 62K

- Up to 19.5 SEER, 12.6 EER, 9.2 HSPF

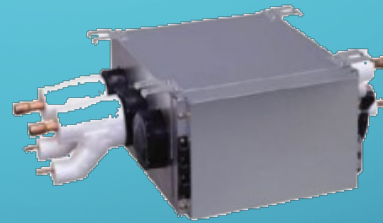


SUPER MULTI PLUS - 8 ZONE SYSTEM

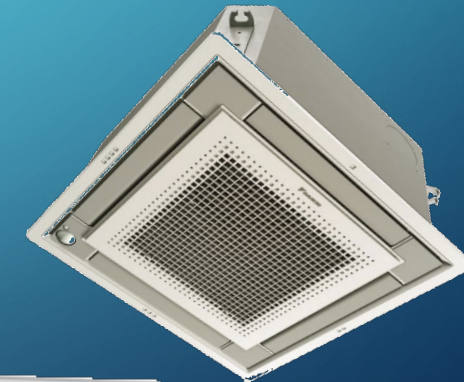
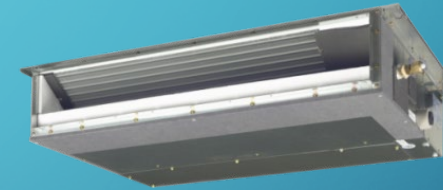
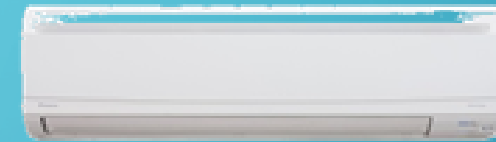
Components in Super Multi Plus



REFNET
"Y" Joint



Branch Port Box



REFNET "Y" JOINT INSTALLATION



- REFNET Y Joints to be installed: straight up - straight down – level (+/- 30°)
- Refnets must be insulated (supplied in box)
- **All REFNETS are braze connection**
- Each REFNET included in the branch kit is labeled to identify circuit:
 - Liquid – Gas



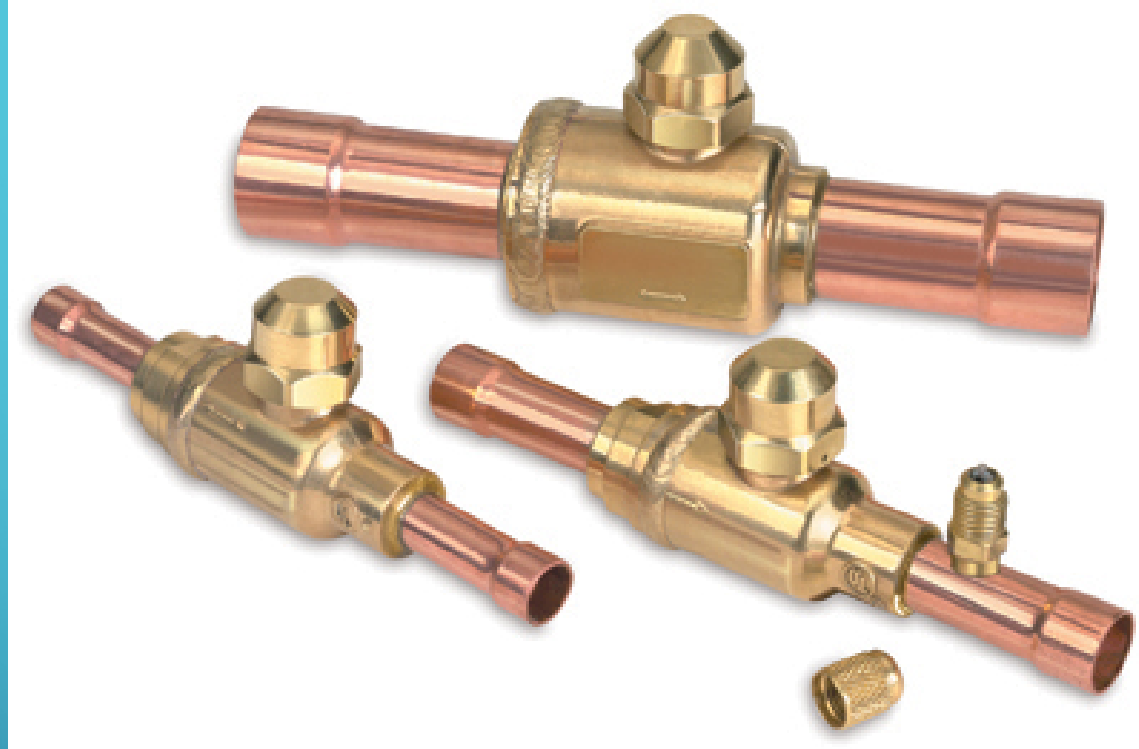
REFNET Joint



ATTACHED INSULATORS
for REFNET Joint



REFRIGERATION BALL VALVES FOR SUPER MULTI PLUS



- Contractor discretion to use upon install
- Must be: Full port, Schrader core, compatible with PVE oil & R-410A, withstand 550psi.
- Helps to isolate leaks instead of pumping down entire system.

RMXS FEATURES

- Max Cooling Capacity – 48,000 Btu/h
(Heating 54,000 Btu/h)
- **Up to 62,000 BTU fan coil combination capacity**
- Up to 18.8 SEER (HSPF 11.3)
- 130% Connection Ratio
- 440 feet total pipe length
- Operating Range
 - Cooling 23° to 115° F
 - Heating 5 ° to 75° F



VERIFY YOUR COMBINATIONS – SEE REF. GUIDE

| Port | 2MX*18* | 3MX*24* | 4MX*36* | 5MXS48 |
|------|----------------------|-------------------------|--------------------------------|--------------------------------|
| A | 07, 09, 12 | 07, 09, 12 | 07, 09, 12 | 07, 09, 12 |
| B | # # # 07 09 12 15 | # # # 07 09 12 15 18 | # # # 07 09 12 15 18 | # # # 07 09 12 15 18 |
| C | _____ | # # # 07 09 12 15 18 | # # # 07 09 12 15 18 | # # # 07 09 12 15 18 |
| D | _____ | _____ | ▲ ▲ ▲ ■ ■ 07 09 12 15 18 24 | ▲ ▲ ▲ ■ ■ 07 09 12 15 18 24 |
| E | | | | ▲ ▲ ▲ ■ ■ 07 09 12 15 18 24 |

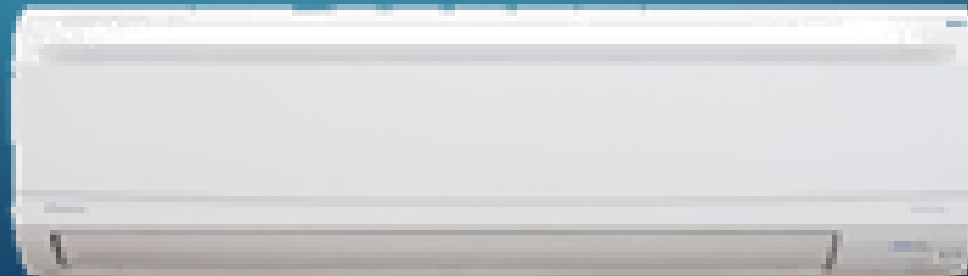
- Use a reducer to connect pipes.
- # Use No. 2 and 4 reducers
- ▲ Use No. 5 and 6 reducers
- Use No. 1 and 3 reducers

***Two 24k indoor with
4MX*36 requires kit
4015875**



Daikin Multi-Zone Combinations

| Max: 24k BTU/h | Max: 39k BTU/h | | Max: 48k BTU/h | | | | Max: 48k BTU/h | | | | | | | | | |
|-----------------|-----------------|----------|-----------------|----------|----------|-------------|----------------|--------|----------|----------|-------------|-------------|-------------|----------------|----------------|----------------|
| 2MX118 / 2MXS18 | 3MX124 / 3MXS24 | | 4MXL36 / 4MXS36 | | | | 5MXS48 | | | | | | | | | |
| 2 Zone | 2 Zone | 3 Zone | 2 Zone | 3 Zone | | 4 Zone | | 2 Zone | 3 Zone | | 4 Zone | | | 5 Zone | | |
| 07+07 | 07+07 | 07+07+07 | 07+07 | 07+07+07 | 09+09+15 | 07+07+07+07 | 07+09+09+18 | 07+07 | 07+07+07 | 09+09+24 | 07+07+07+07 | 07+09+12+12 | 09+09+12+12 | 07+07+07+07+07 | 07+07+09+12+18 | 09+09+09+09+18 |
| 07+09 | 07+09 | 07+07+09 | 07+09 | 07+07+09 | 09+09+18 | 07+07+07+09 | 07+09+12+12 | 07+09 | 07+07+09 | 09+12+12 | 07+07+07+09 | 07+09+12+15 | 09+09+12+15 | 07+07+07+07+09 | 07+07+09+15+15 | 09+09+09+12+12 |
| 07+12 | 07+12 | 07+07+12 | 07+12 | 07+07+12 | 09+09+24 | 07+07+07+12 | 07+09+12+15 | 07+12 | 07+07+12 | 09+12+15 | 07+07+07+12 | 07+09+12+18 | 09+09+12+18 | 07+07+07+07+12 | 07+07+09+15+18 | 09+09+09+12+15 |
| 07+15 | 07+15 | 07+07+15 | 07+15 | 07+07+15 | 09+12+12 | 07+07+07+15 | 07+09+12+18 | 07+15 | 07+07+15 | 09+12+18 | 07+07+07+15 | 07+09+12+24 | 09+09+12+24 | 07+07+07+07+15 | 07+07+12+12+12 | 09+09+09+12+18 |
| 09+09 | 07+18 | 07+07+18 | 07+18 | 07+07+18 | 09+12+15 | 07+07+07+18 | 07+09+15+15 | 07+18 | 07+07+18 | 09+12+24 | 07+07+07+18 | 07+09+15+15 | 09+09+15+15 | 07+07+07+07+18 | 07+07+12+12+15 | 09+09+09+15+15 |
| 09+12 | 09+09 | 07+09+09 | 07+24 | 07+07+24 | 09+12+18 | 07+07+07+24 | 07+12+12+12 | 07+24 | 07+07+24 | 09+15+15 | 07+07+07+24 | 07+09+15+18 | 09+09+15+18 | 07+07+07+07+24 | 07+07+12+12+18 | 09+09+12+12+12 |
| 09+15 | 09+12 | 07+09+12 | 09+09 | 07+09+09 | 09+12+24 | 07+07+09+09 | 07+12+12+15 | 09+09 | 07+09+09 | 09+15+18 | 07+07+09+09 | 07+09+15+24 | 09+09+15+24 | 07+07+07+09+09 | 07+09+09+09+09 | 09+09+12+12+15 |
| 12+12 | 09+15 | 07+09+15 | 09+12 | 07+09+12 | 09+15+15 | 07+07+09+12 | 09+09+09+09 | 09+12 | 07+09+12 | 09+15+24 | 07+07+09+12 | 07+09+18+18 | 09+09+18+18 | 07+07+07+09+12 | 07+09+09+09+12 | 09+12+12+12+12 |
| | 09+18 | 07+09+18 | 09+15 | 07+09+15 | 09+15+18 | 07+07+09+15 | 09+09+09+12 | 09+15 | 07+09+15 | 09+18+18 | 07+07+09+15 | 07+09+18+24 | 09+12+12+12 | 07+07+07+09+15 | 07+09+09+09+15 | |
| | 12+12 | 07+12+12 | 09+18 | 07+09+18 | 09+15+24 | 07+07+09+18 | 09+09+09+15 | 09+18 | 07+09+18 | 09+18+24 | 07+07+09+18 | 07+12+12+12 | 09+12+12+15 | 07+07+07+09+18 | 07+09+09+09+18 | |
| | 12+15 | 07+12+15 | 09+24 | 07+09+24 | 09+18+18 | 07+07+09+24 | 09+09+09+18 | 09+24 | 07+09+24 | 09+24+24 | 07+07+09+24 | 07+12+12+15 | 09+12+12+18 | 07+07+07+09+24 | 07+09+09+09+24 | |
| | 12+18 | 07+12+18 | 12+12 | 07+12+12 | 12+12+12 | 07+07+12+12 | 09+09+12+12 | 12+12 | 07+12+12 | 12+12+12 | 07+07+12+12 | 07+12+12+18 | 09+12+12+24 | 07+07+07+12+12 | 07+09+09+12+12 | |
| | 15+15 | 07+15+15 | 12+15 | 07+12+15 | 12+12+15 | 07+07+12+15 | 09+09+12+15 | 12+15 | 07+12+15 | 12+12+15 | 07+07+12+15 | 07+12+12+24 | 09+12+15+15 | 07+07+07+12+15 | 07+09+09+12+15 | |
| | 15+18 | 09+09+09 | 12+18 | 07+12+18 | 12+12+18 | 07+07+12+18 | 09+09+12+18 | 12+18 | 07+12+18 | 12+12+18 | 07+07+12+18 | 07+12+15+15 | 09+12+15+18 | 07+07+07+12+18 | 07+09+09+12+18 | |
| | 18+18 | 09+09+12 | 12+24 | 07+12+24 | 12+12+24 | 07+07+15+15 | 09+09+15+15 | 12+24 | 07+12+24 | 12+12+24 | 07+07+12+24 | 07+12+15+18 | 09+12+18+18 | 07+07+07+12+24 | 07+09+09+15+15 | |
| | | 09+09+15 | 15+15 | 07+15+15 | 12+15+15 | 07+07+15+15 | 09+12+12+12 | 15+15 | 07+15+15 | 12+15+15 | 07+07+15+18 | 07+12+15+24 | 09+15+15+15 | 07+07+07+15+15 | 07+09+09+15+18 | |
| | | 09+09+18 | 15+18 | 07+15+18 | 12+15+18 | 07+09+09+09 | 09+12+12+15 | 15+18 | 07+15+18 | 12+15+18 | 07+07+15+15 | 07+12+18+18 | 09+15+15+18 | 07+07+07+15+18 | 07+09+12+12+12 | |
| | | 09+12+12 | 15+24 | 07+18+18 | 12+18+18 | 07+09+09+12 | 12+12+12+12 | 15+24 | 07+15+24 | 12+18+18 | 07+07+15+24 | 07+15+15+15 | 12+12+12+12 | 07+07+07+18+18 | 07+09+12+12+15 | |
| | | 09+12+15 | 18+18 | 09+09+09 | 15+15+15 | 07+09+09+15 | | 18+18 | 07+18+18 | 12+18+24 | 07+07+18+18 | 07+15+15+18 | 12+12+12+15 | 07+07+09+09+09 | 07+09+12+12+18 | |
| | | 09+12+18 | 18+24 | 09+09+12 | 15+15+18 | | | 18+24 | 07+18+24 | 15+15+15 | 07+07+18+24 | 07+15+18+18 | 12+12+12+18 | 07+07+09+09+12 | 07+09+12+15+15 | |
| | | 09+15+15 | 24+24 | | | | | 24+24 | 07+24+24 | 15+15+18 | 07+09+09+09 | 09+09+09+09 | 12+12+15+15 | 07+07+09+09+15 | 07+12+12+12+12 | |
| | | 12+12+12 | | | | | | | 09+09+09 | 15+15+24 | 07+09+09+12 | 09+09+09+12 | 12+12+15+18 | 07+07+09+09+18 | 07+12+12+12+15 | |
| | | 12+12+15 | | | | | | | 09+09+12 | 15+18+18 | 07+09+09+15 | 09+09+09+15 | 12+15+15+15 | 07+07+09+09+24 | 09+09+09+09+09 | |
| | | | | | | | | | 09+09+15 | 15+18+24 | 07+09+09+18 | 09+09+09+18 | | 07+07+09+12+12 | 09+09+09+09+12 | |
| | | | | | | | | | 09+09+18 | 18+18+18 | 07+09+09+24 | 09+09+09+24 | | 07+07+09+12+15 | 09+09+09+09+15 | |





Key Points of Sky Air

- **Single phase**
- **18,000 to 48,000 Btu/h**
- **Up to 20 SEER**
- **Restaurants, shops, small offices, data/server rooms and more light commercial applications**
- **Large residential bonus rooms, new additions, etc...**
- **Long lineset lengths from 164ft to 230 FEET**
- **Largest one-to-one application with capacity up to 48,000 Btu/h.**
- **Low ambient capabilities right out of the box**



LINESET LENGTH GUIDELINES

SkyAir



1.5 – 2.5 TON

SkyAir



-164ft-



3 – 4 TON

SkyAir



- 230ft -



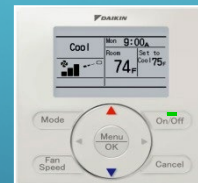
SKY AIR CASSETTE

- **Variable Speed Compressor**
- **Roundflow Cassette AHU**
- **3 x 3 AHU Dimension**
- **Optional 4" Duct from Cassette Shell**
- **Built-in Condensate Pump**
- **1.5 – 4 Ton**

SkyAir

FCQ

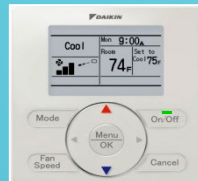
Model



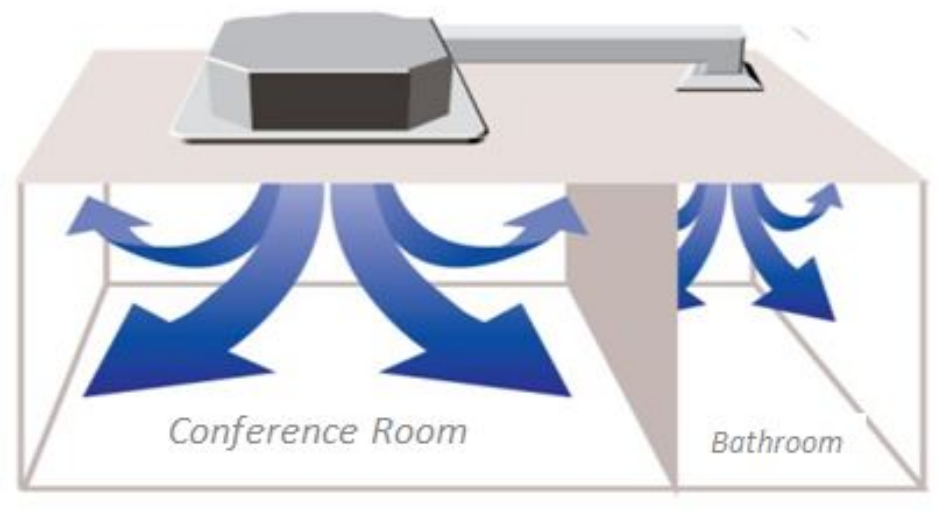
DAIKIN
AIR INTELLIGENCE™

VIRGINIA AIR
VIRGINIA AIR DISTRIBUTORS, INC.

SKY AIR CASSETTE – DISCHARGE/FRESH AIR OPTIONS



Sub-duct



ROUND FLOW SENSING CASSETTE (FCQ)

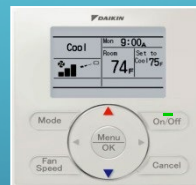


SKY AIR SLIM DUCT

SkyAir

FBQ Model

- **Variable Speed Compressor**
- **High Velocity Air Handler**
- **AHU Up to 0.8" Static Discharge**
- **1.5 – 4 Ton**
- **Built-in Condensate Pump/Float Switch**

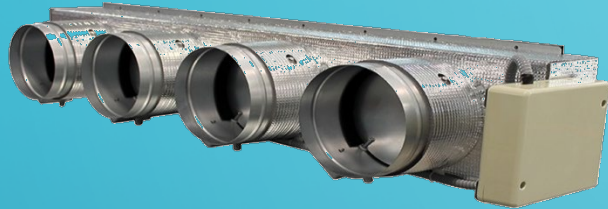


DAIKIN
AIR INTELLIGENCE™

VIRGINIA AIR
VIRGINIA AIR DISTRIBUTORS, INC.

Daikin Zoning Kit — DZK

“Enables multiple individually-controlled zones to be served by one Daikin indoor unit fan coil”



Zoning Box



FBQ Air Handler



Wireless
Thermostats



Main
Thermostat

SKY AIR WALL MOUNT

- **Variable Speed Compressor**
- **AHU Wide Angle Louvers**
- **Auto Swing Function**
- **18K, 24K btu**

SkyAir

FAQ Model



DAIKIN
AIR INTELLIGENCE™

VIRGINIA AIR
VIRGINIA AIR DISTRIBUTORS, INC.

SKY AIR CEILING SUSPENDED

SkyAir

FHQ Model

- **Variable Speed Compressor**
- **AHU "Air-Throw" 25 – 30 Feet**
- **Auto-swing - 100° airflow pattern**
- **1.5 – 3.5 Ton**



DAIKIN
AIR INTELLIGENCE™

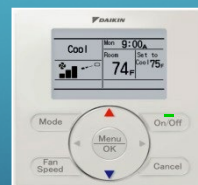
VIRGINIA AIR
VIRGINIA AIR DISTRIBUTORS, INC.

SKY AIR CONVENTIONAL AIR HANDLER

SkyAir

FTQ Model

- **Variable Speed Compressor**
- **Variable Speed Air Handler**
- **Heating down to ZERO degrees with no back up heat**
- **Four Way Convertible**
- **1.5 – 4 Ton**
- **Competitively Priced**



DAIKIN
AIR INTELLIGENCE™

VIRGINIA AIR
VIRGINIA AIR DISTRIBUTORS, INC.

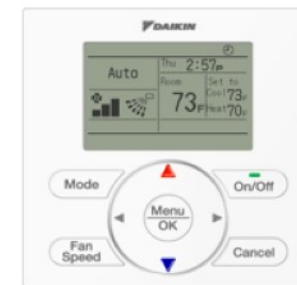
Controls



Daikin One



Wired Controller
BRC944B2
(Optional)



Navigation Remote
BRC1E73 - (FFQ Only)



Wireless Remote
ARC452



Wireless Remote
BRC7E830
(Optional)



ARC480A6-F15 SEER HP
ARC480A7-F15 SEER AC
ARC480A8-F19 SEER HP
ARC480A9-F19 SEER AC

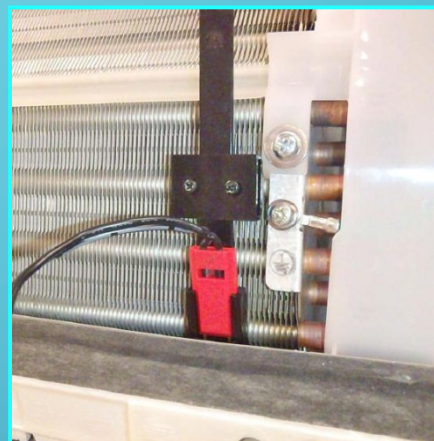


Quaternity
Wireless
Remote
ARC447A3

OPTIONAL FLOAT SWITCH SS610E

- **FTXS/CTXS/FTXN/FTXG/FTXB**
Wallmount Units

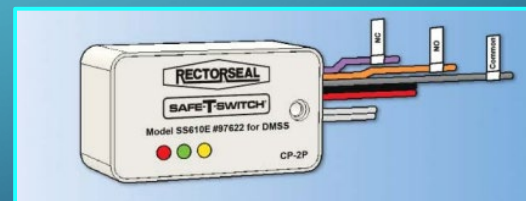
- Condensate overflow protection for all Daikin wallmount fan coil units
 - Microelectronic control
 - No moving parts
- Simple two component installation
 - Drain Pan Water Sensor
 - Electronic Control Switch



Drain Pan Water Sensor

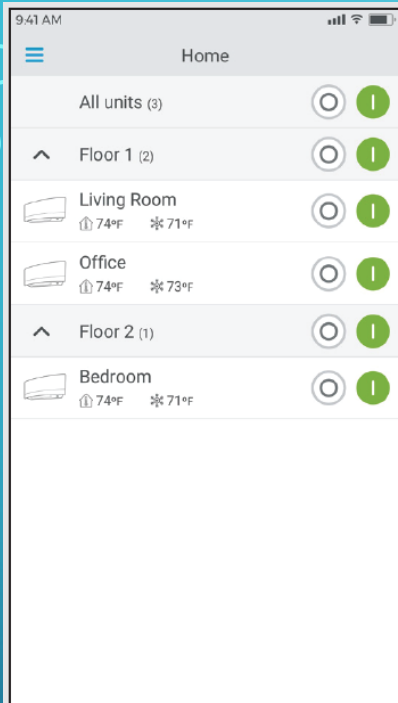


DACA-CFS1

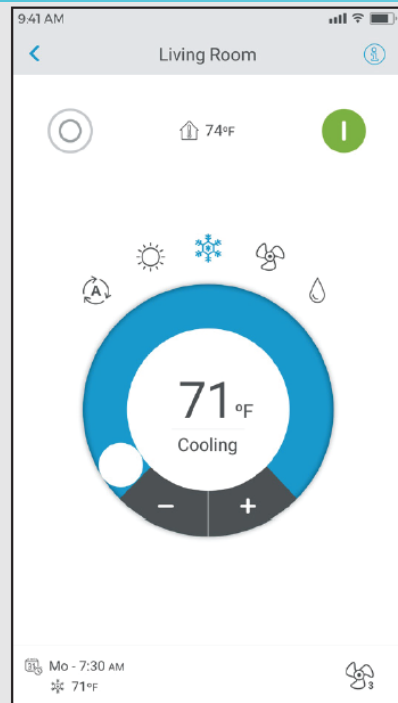


Electronic Control Switch
Line Voltage Powered

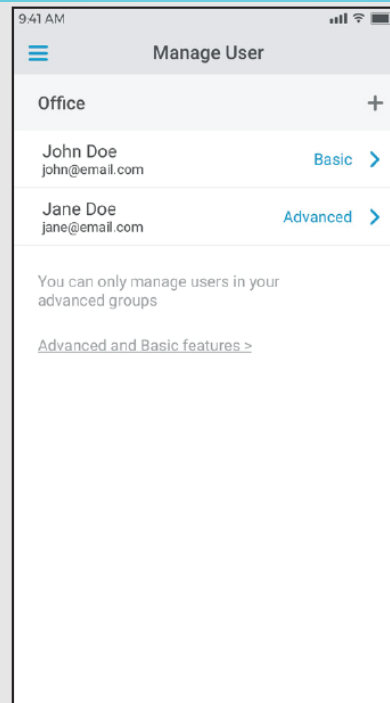
SKYAIR WIRELESS ADAPTER



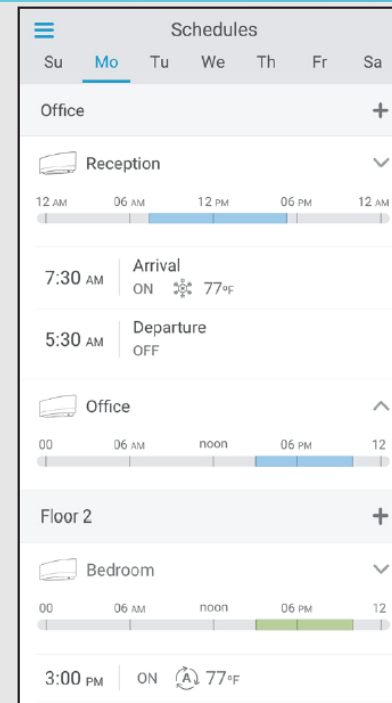
Indoor unit control and monitoring. Unlimited indoor units can be added to one account. Control indoor units as a group.



Control and monitor indoor unit's ON/OFF, mode, setpoint, fan speed, room temperature, and error status.



Leveled user authority options: Basic/Advanced



7 Days Schedule



AZAI6WSCDKA

WIRELESS INTERFACE ADAPTER AND COMFORT CONTROL APP

Walk through basic installation

- Wireless interface adapter
 - Installation manual
 - Installation pictures
- Connecting the adapter to a network
 - WPS
 - Manual Connection

**Wireless
Interface Adapter
(BRP072A43)**



App Navigation and Control

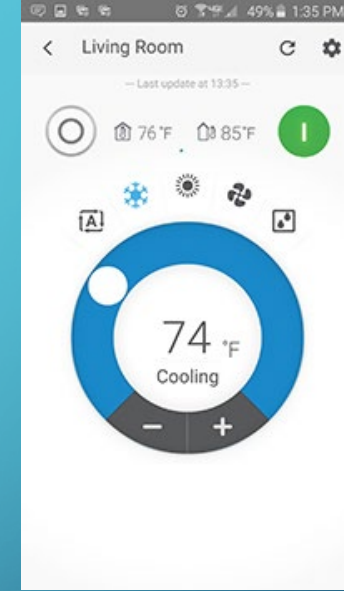
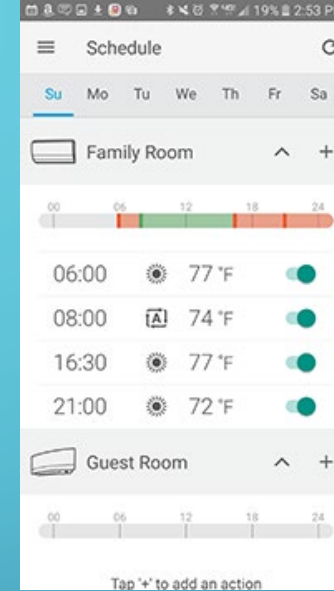
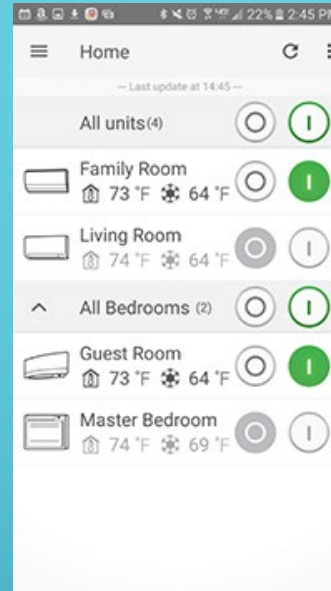
- Basic mode control
- Setting a schedule
- Overview groups and group control



Daikin Control Comfort App

NEW WIFI CONTROL MODULE

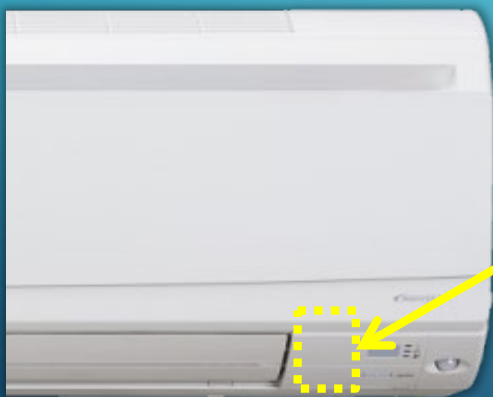
- New WiFi Controller
- Excellent price point
- One per handler



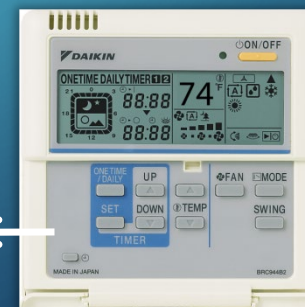
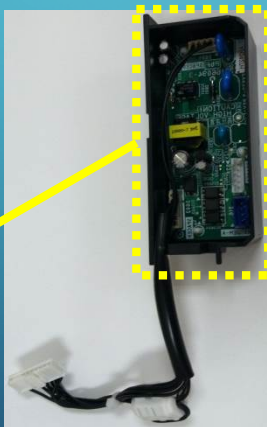
KRP980B2 INTERFACE ADAPTER KIT

Use with select single zone indoor models when using optional wall controllers.
19 Series

KRP980B1



To S21
connector



BRC944B2

DAIKIN RESOURCES



DAIKIN EQUIP APP

- Search “Daikin eQuip” in the Apple App Store or Android Market
- Awesome Features:
 - Technical Data
 - Product Manuals
 - Marketing Flyers
 - Submittal Sheets
 - Parts
 - 3D Dealer Locator



WWW.DAIKINAC.COM



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AIR INTELLIGENCE™

VIRGINIA AIR
VIRGINIA AIR DISTRIBUTORS, INC.

THE INSTALLATION MANUAL

DAIKIN



DAIKIN ROOM AIR CONDITIONER INSTALLATION MANUAL R410A Split Series

INVERTER

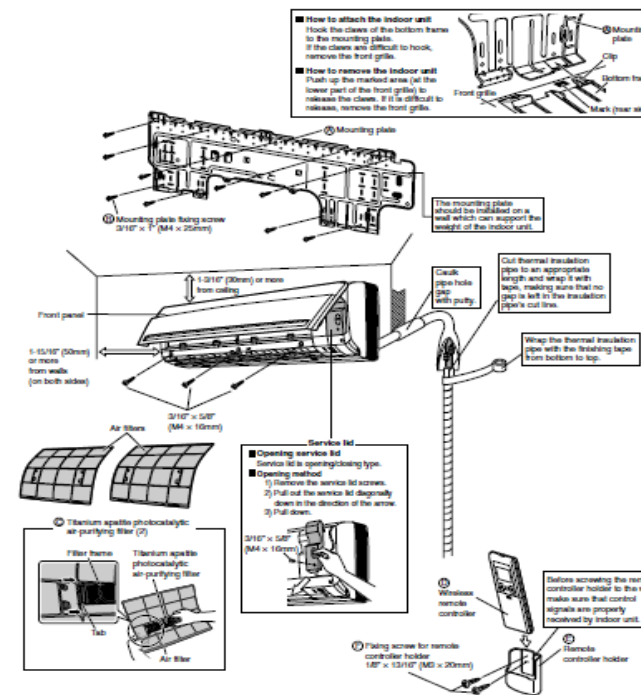
Installation manual
Manuel d'installation
Manual de instalación

English

Français


Español

Indoor Unit Installation Drawings



THE ENGINEERING DATA MANUAL

- Installation, Operation, Engineering Data All-In-One



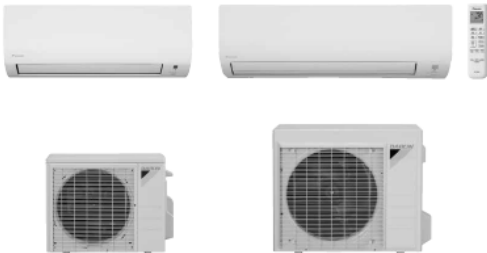
EDUS041502

R-410A

Engineering Data

Split Type Air Conditioners
- Cooling Only / Heat Pump -
SEER 18 Models

FTK(X)-N Series



INVERTER

FTX18NMVJU + RX18NMVJU

60 Hz, 208 V

Cooling

| | |
|-----|------|
| AFR | 20.2 |
| BF | 0.27 |

Temp: Celsius

TC, SHC, PI: kW

| INDOOR | | OUTDOOR TEMPERATURE (°CDB) | | | | | | | | | | | | | | | |
|--------|------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 20 | | | | 25 | | | | 30 | | | | 35 | | | |
| EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC |
| 14.0 | 20.0 | 5.41 | 4.15 | 1.11 | 5.16 | 4.03 | 1.21 | 4.92 | 3.91 | 1.32 | 4.82 | 3.86 | 1.36 | 4.67 | 3.79 | 1.43 | 4.43 |
| 16.0 | 22.0 | 5.65 | 4.08 | 1.11 | 5.41 | 3.96 | 1.22 | 5.16 | 3.85 | 1.32 | 5.06 | 3.81 | 1.37 | 4.92 | 3.74 | 1.43 | 4.67 |
| 18.0 | 25.0 | 5.90 | 4.29 | 1.12 | 5.65 | 4.19 | 1.22 | 5.40 | 4.08 | 1.33 | 5.31 | 4.04 | 1.37 | 5.16 | 3.98 | 1.44 | 4.91 |
| 19.4 | 26.7 | 6.02 | 4.54 | 1.12 | 5.77 | 4.44 | 1.23 | 5.53 | 4.34 | 1.33 | 5.43 | 4.30 | 1.38 | 5.28 | 4.24 | 1.44 | 5.03 |
| 22.0 | 30.0 | 6.38 | 4.39 | 1.13 | 6.14 | 4.30 | 1.24 | 5.89 | 4.21 | 1.34 | 5.79 | 4.18 | 1.39 | 5.64 | 4.12 | 1.45 | 5.40 |
| 24.0 | 32.0 | 6.63 | 4.28 | 1.14 | 6.38 | 4.20 | 1.24 | 6.13 | 4.12 | 1.35 | 6.04 | 4.09 | 1.39 | 5.89 | 4.04 | 1.46 | 5.64 |

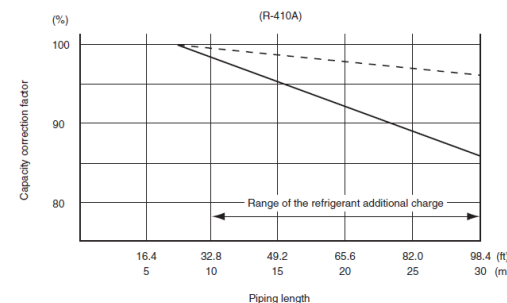
Temp: Fahrenheit

TC, SHC: kBtu/h

PI: kW

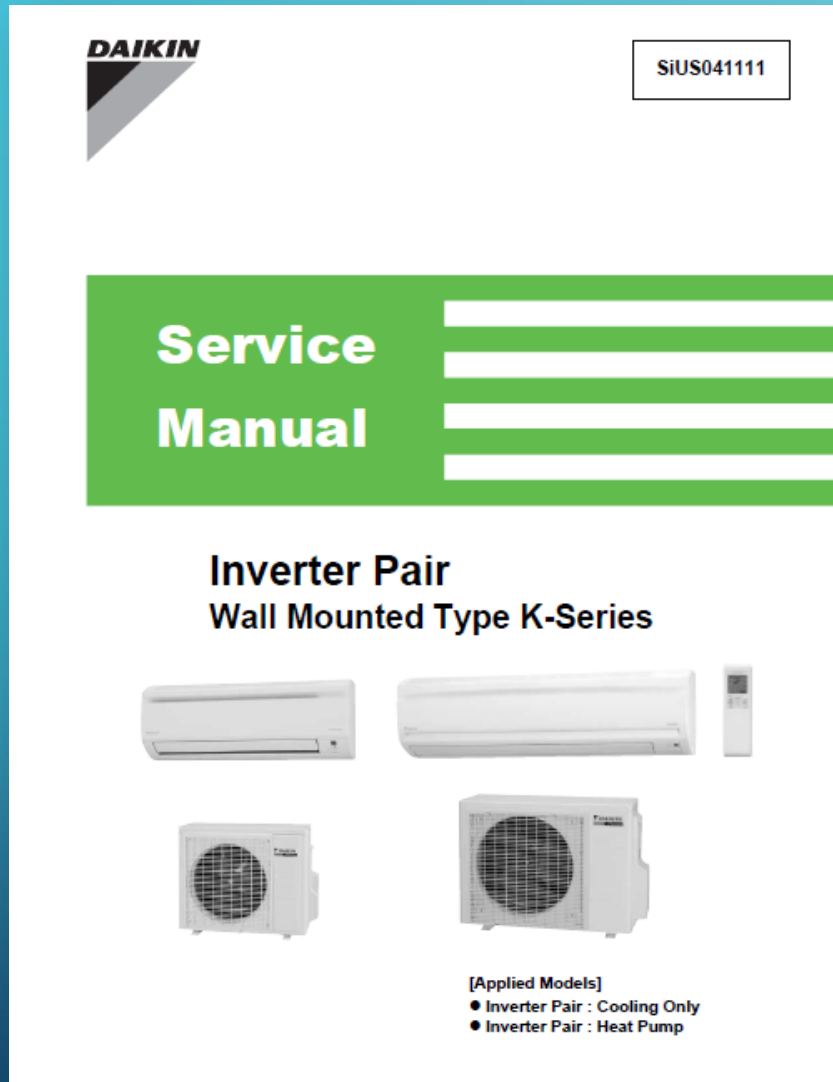
| INDOOR | | OUTDOOR TEMPERATURE (°FDB) | | | | | | | | | | | | | | | |
|--------|------|----------------------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|
| | | 68 | | | | 77 | | | | 86 | | | | 95 | | | |
| EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC |
| 57.2 | 68.0 | 18.46 | 14.15 | 1.11 | 17.62 | 13.74 | 1.21 | 16.78 | 13.34 | 1.32 | 16.44 | 13.17 | 1.36 | 15.94 | 12.93 | 1.43 | 15.10 |
| 60.8 | 71.6 | 19.29 | 13.91 | 1.11 | 18.45 | 13.52 | 1.22 | 17.61 | 13.14 | 1.32 | 17.27 | 12.99 | 1.37 | 16.77 | 12.77 | 1.43 | 15.93 |
| 64.4 | 77.0 | 20.12 | 14.64 | 1.12 | 19.28 | 14.28 | 1.22 | 18.44 | 13.93 | 1.33 | 18.10 | 13.79 | 1.37 | 17.60 | 13.58 | 1.44 | 16.76 |
| 67.0 | 80.0 | 20.53 | 15.50 | 1.12 | 19.69 | 15.16 | 1.23 | 18.85 | 14.82 | 1.33 | 18.52 | 14.68 | 1.38 | 18.00 | 14.48 | 1.44 | 17.18 |
| 71.6 | 86.0 | 21.78 | 14.97 | 1.13 | 20.94 | 14.67 | 1.24 | 20.10 | 14.37 | 1.34 | 19.76 | 14.25 | 1.39 | 19.26 | 14.07 | 1.45 | 18.42 |
| 75.2 | 89.6 | 22.61 | 14.60 | 1.14 | 21.77 | 14.32 | 1.24 | 20.93 | 14.05 | 1.35 | 20.59 | 13.94 | 1.39 | 20.09 | 13.78 | 1.46 | 19.25 |

7.3.3 24 Class

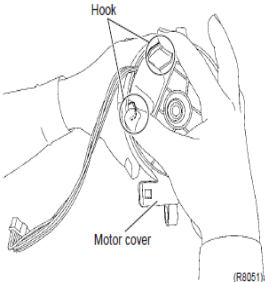
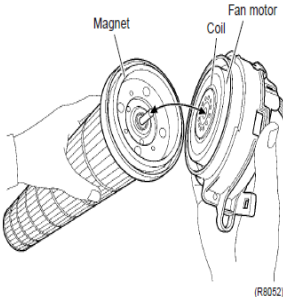


Note: The graphs show the factor when additional refrigerant of the proper quantity is charged.

THE SERVICE MANUAL



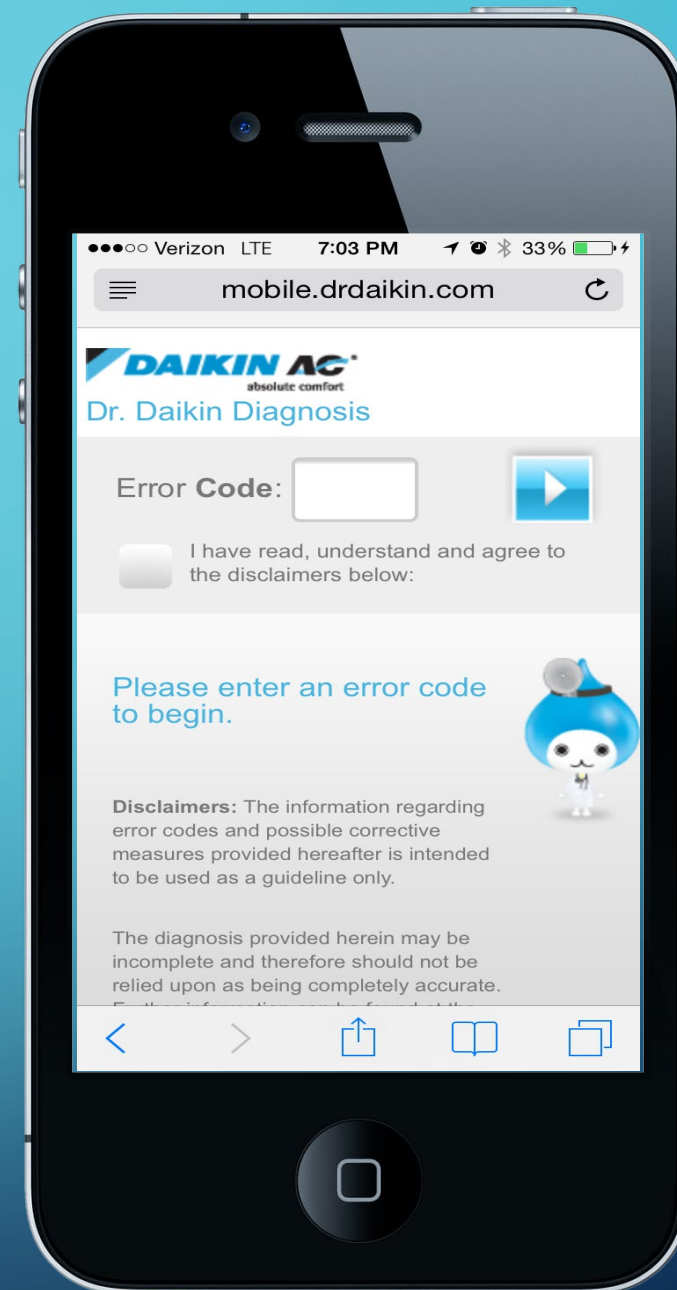
- Great tool for servicing units
- Contains removal procedures for all main parts of indoor and outdoor sections

| Step | Procedure | Points |
|------|--|--|
| 5 | Unfasten the 2 hooks of the motor cover. | |
| |  | |
| 6 | Pull out the fan motor from the fan rotor to remove. | <ul style="list-style-type: none">■ The magnet of the fan motor is united with the fan rotor. Be careful not to attract metal waste to the magnet. Keep away from the materials that can be affected by magnetic force also. |
| |  | |

DR. DAIKIN

Your Virtual Help Desk

- <http://mobile.drdaikin.com>
- 1.866.4.DAIKIN



DAIKIN CITY

- www.daikincity.com
 - Submittals
 - Installation Manuals
 - Engineering Guides
 - RMXS System Builder
 - Product Information
 - Marketing Materials
 - Logos/Images
 - Daikin University Training Center for sign-up through Daikin City



DAIKINONE.COM



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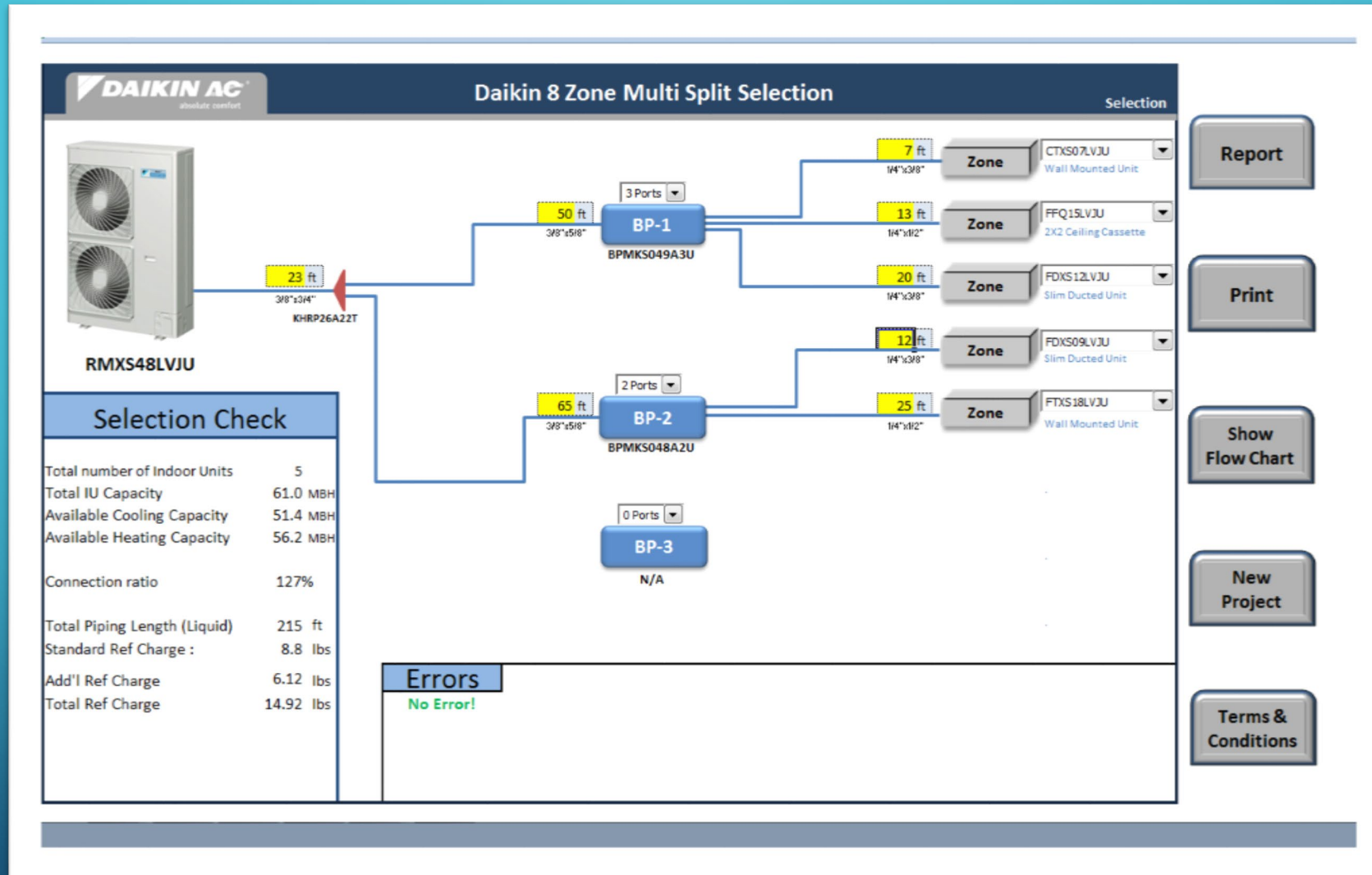


DAIKIN ONE+ Smart Thermostat.

The first smart thermostat to offer full two-way communications with Daikin HVAC systems.
An intelligent home air controller from one of the world's leading heating, ventilating, and air conditioning manufacturers.



RMXS SYSTEM BUILDING TOOL



TECHNICAL SUPPORT

- 1) TRAINED TECHNICIANS SHOULD BE THE FIRST LINE OF DEFENSE
- 2) VIRGINIA AIR DISTRIBUTORS TECHNICAL SUPPORT MANAGERS
CALL OUR TSM QUEUE – 1-888-823-4357
- 3) DAIKIN TECHNICAL SUPPORT – THIRD AND LAST RESORT
1-855-DAIKIN1 (1-855-324-5461)

PRODUCT INSTALLATION OUTDOOR UNITS



COMMON INSTALLATION PITFALLS

- INCORRECT WIRING
- REFRIGERANT PIPING NOT INSULATED PROPERLY
- LEAKS DUE TO IMPROPER FLARES
- IMPROPER CONDENSATE DRAINAGE
- IMPROPER LINESET SELECTION/INSTALLATION
- NITROGEN NOT USED WHILE BRAZING
- OUTDOOR UNIT NOT SECURED/ELEVATED DEPENDING ON APPLICATION



SIX STEP INSTALL PROCESS

- Select Indoor unit Location(s)
- Install Indoor Unit
- Install Outdoor unit
- Interconnect System / Power Wiring
- Leak Test and Evacuate
- Charge and Test Run

Outdoor Unit Installation Drawings

| | | | | |
|--|-----------------------|------------------------|--------------------------------|--------------------------------|
| | RX09/12* RK09/12* | RXN09/12* RKN09/12* | RX18*, RXN18* RK18*, RKN18* | RX24*, RXN24* RK24*, RKN24* |
| Max. allowable piping length | 65-5/8ft (20m) | 49-1/4ft (15m) | 98-1/2ft (30m) | |
| Min. allowable piping length | 10ft (3m) | | | |
| Max. allowable piping height | 49-1/4ft (15m) | 39-3/8ft (12m) | 65-5/8ft (20m) | |
| Additional refrigerant required for refrigerant pipe exceeding 32.8ft (10m) in length. | 0.21 oz/ft (20g/m) | | | |
| Gas pipe | O.D. 3/8 inch (9.5mm) | | O.D. 1/2 inch (12.7mm) | O.D. 5/8 inch (15.9mm) |
| Liquid pipe | O.D. 1/4 inch (6.4mm) | | | |

*Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.

**The suggested shortest pipe length is 10ft (3m), in order to avoid noise from the outdoor unit and vibration.
(Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)

| | X | Y | Z |
|-------------|---------------------|---------------------|----------------------|
| 09/12 class | 18-1/2 inch (470mm) | 12-1/8 inch (308mm) | 3-13/16 inch (97mm) |
| 18/24 class | 23-5/8 inch (600mm) | 13-5/8 inch (346mm) | 4-15/16 inch (125mm) |

In sites with poor drainage, use block bases for the outdoor unit. Adjust foot height until the unit is level. Otherwise, water leakage or pooling of water may occur.

Appearance of outdoor units may differ from some models.

Allow 11-13/16" (300mm) of work space below the ceiling surface.

Wrap the insulation pipe with finishing tape from bottom to top.

CAUTION

Keep the piping length between 10ft (3m) and 65-5/8ft (20m) (for RX09/12, RK09/12), 10ft (3m) and 49-1/4ft (15m) (for RXN09/12, RKN09/12), 10ft (3m) and 98-1/2ft (30m) (for 18/24 class).

Stop valve cover

How to remove the stop valve cover

- 1) Remove the screw on the stop valve cover.
- 2) Slide the stop valve cover downward to remove it.

How to attach the stop valve cover

- 1) Insert the upper part of the stop valve cover into the outdoor unit.
- 2) Tighten the screw.

Allow space for piping and electrical servicing.

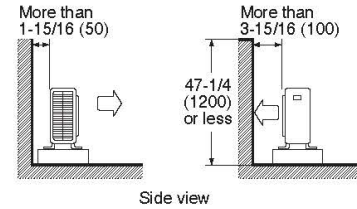
Where there is a danger of the unit falling, use foot bolts, or wires.

Installation Guidelines

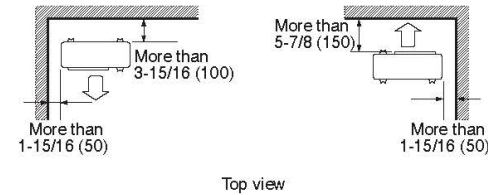
- Where a wall or other obstacle is in the path of the outdoor unit's intake or exhaust airflow, follow the installation guidelines below.
- For any of the below installation patterns, the wall height on the outlet side should be 47-1/4 inch (1200mm) or less.

09/12 class

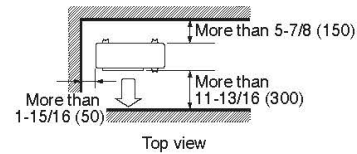
Wall facing one side



Walls facing two sides



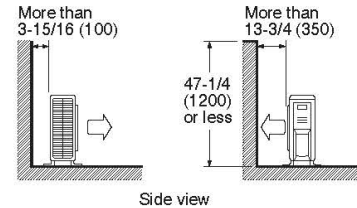
Walls facing three sides



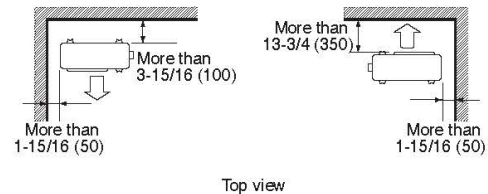
unit: inch (mm)

18/24 class

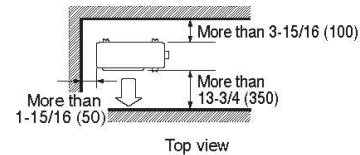
Wall facing one side



Walls facing two sides



Walls facing three sides



unit: inch (mm)

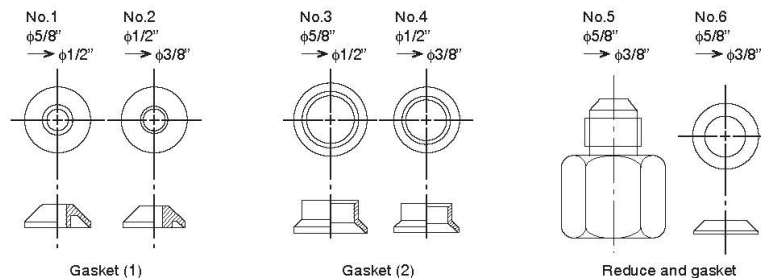
DON'T THROW AWAY THE ADAPTERS

- Located in packaging in condenser / outdoor unit box.



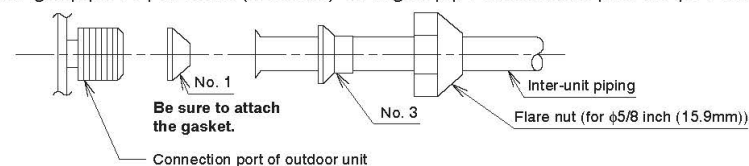
**Refer to
installation
instructions**

How to Use Reducers

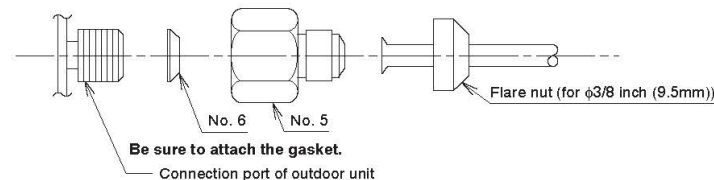


- Use the reducers supplied with the unit as described below.

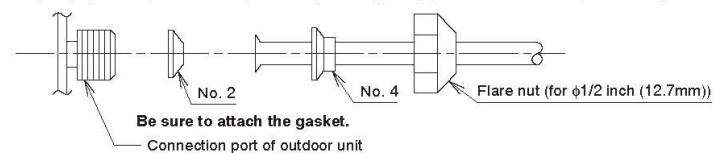
(1) Connecting a pipe of $\phi 1/2$ inch (12.7mm) to a gas pipe connection port for $\phi 5/8$ inch (15.9mm) :



(2) Connecting a pipe of $\phi 3/8$ inch (9.5mm) to a gas pipe connection port for $\phi 5/8$ inch (15.9mm) :



(3) Connecting a pipe of $\phi 3/8$ inch (9.5mm) to a gas pipe connection port for $\phi 1/2$ inch (12.7mm) :



- When using the reducer packing shown above, be careful not to overtighten the nut, or the smaller pipe may become damaged. (Apply about 2/3 to 3/3 the normal torque.)
- Apply a coat of refrigeration oil to the threaded connection port of the outdoor unit where the flare nut comes in.
- Use an appropriate wrench to avoid damaging the connection thread by overtightening the flare nut.

| Piping size | Flare nut tightening torque |
|-------------------------------|--|
| O.D. $\phi 3/8$ inch (9.5mm) | 24-1/8 – 29-1/2ft • lbf (32.7-39.9N • m) |
| O.D. $\phi 1/2$ inch (12.7mm) | 36-1/2 – 44-1/2ft • lbf (49.5-60.3N • m) |
| O.D. $\phi 5/8$ inch (15.9mm) | 45-5/8 – 55-5/8ft • lbf (61.8-75.4N • m) |

ALL FLARE CONNECTIONS



MUST HAVE TOOLS FOR START UP



AD87 Brass Charge Adapter Fitting



Deburring Tool



Refrigerant Scales



45 Degree Flaring Tool



Torque Wrench Set



Flare Size Gauge

DAIKIN DUCTLESS TOOL KIT DACA-99STK-1 (27 PCS)

- 1 - TLBAG2D Daikin Bag
- 1 - BFT850FN w/case
- 1 - TLTWSAE (Complete w/case)
- 6 - Metric Crows Feet
- 1 - MT2HP (Heat Pump Manifold)
- 1 - BTC300 Tubing Cutter
- 2 - AD87 straight adapter
- 2 - AD87S 45 degree adapter
- 1 - BTLDB3
- 1 - TLSWH Alan Wrench Set
- 1 - TLSWHM Alan Wrench Set
- 1 - AVC410 Caps
- 1 - TLVCS410A
- 1 - DACA-FSG-1 Flare Gauge



WHICH FLARE NUT TO USE? UNIT OR LINESET?



Use only Daikin supplied
flare nuts
(shown on left side above)

It is imperative to remove flare nuts from
lineset and use flare nuts on units.

TORQUE SETTINGS & OIL APPLICATION

| Flare nut tightening torque | | | |
|---|---|---|--|
| Gas side | | | Liquid side |
| 3/8 inch (9.5mm) | 1/2 inch(12.7mm) | 5/8 inch(15.9mm) | 1/4 inch (6.4mm) |
| 24-1/8 – 29-1/2ft • lbf (32.7-39.9N • m) | 36-1/2 – 44-1/2ft • lbf (49.5-60.3N • m) | 45-5/8 – 55-5/8ft • lbf (61.8-75.4N • m) | 10-1/2 – 12-3/4ft • lbf (14.2-17.2 N • m) |

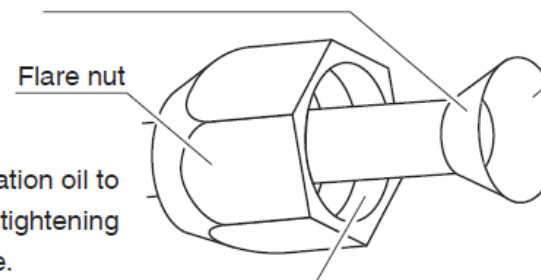
| | | | | |
|--------------------------------|---|---|---|---|
| Width across flats | 11/16 inch(17mm) | 3/4 inch(19mm) | 7/8 inch(22mm) | 1-1/16 inch(27mm) |
| Valve cap tightening torque | 10-1/2 – 12-5/8ft • lbf (14.2-17.2N • m) | 12-5/8 – 15-3/8ft • lbf (17.1-20.9N • m) | 16 – 20-1/4ft • lbf (21.6-27.4N • m) | 35-3/8 – 44-1/8ft • lbf (48-59.8N • m) |

| Service port cap tightening torque | |
|-------------------------------------|--|
| 8 – 10-7/8ft • lbf (10.8-14.7N • m) | |

Apply oil

Do not apply refrigeration oil to the outer surface.

Apply refrigeration oil to the inner surface of the flare.



Do not apply refrigeration oil to the flare nut to avoid tightening with excessive torque.

INSULATE LIQUID AND SUCTION LINE



GOOD

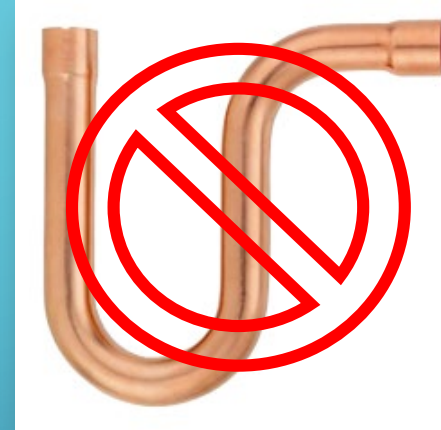


BAD

If you are using leftover, uninsulated copper tubing, make sure to insulate bare line upon installation to ductless unit.

LINE COMPONENTS

Only install driers, oil traps, shut off valves or any other line components in your piping work if instructed to do so in the IOM documents – if no instruction, it's because it is NOT necessary (for Daikin).



The only acceptable piping is ACR (copper) type tubing which is dehydrated and sealed at both ends.



BRAZING



Dry Nitrogen *MUST* be used during all brazing (Pressure regulated to 1.5 to 3 PSIG) to prevent oxidation formation

- Test = 650
- Purge = 25-35 CFH
- Braze = 3-6 CFH
- Off = 0 CFH 😊

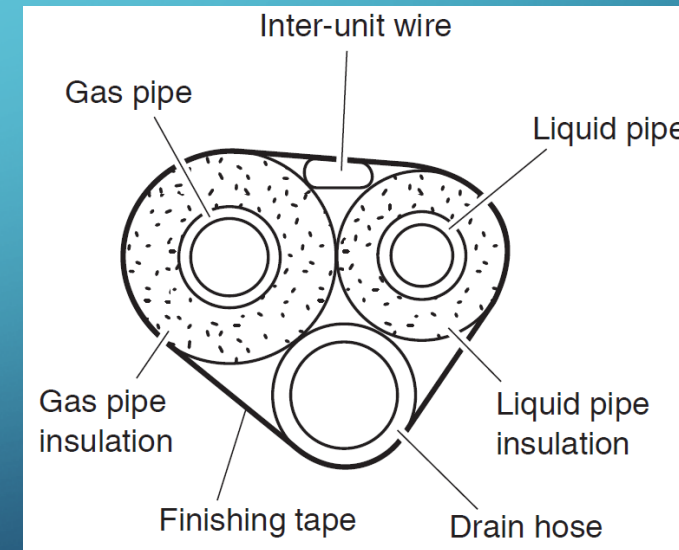
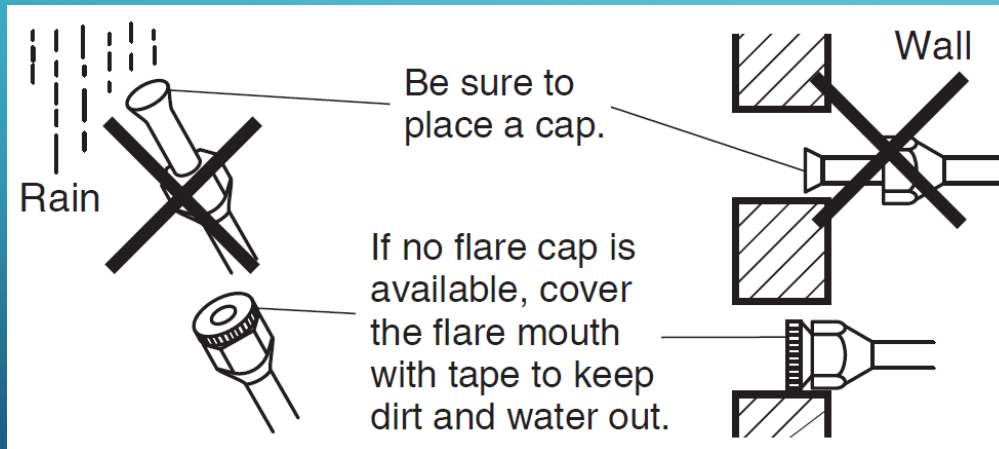


VN-650

PIPE HANDLING & INSTALLATION

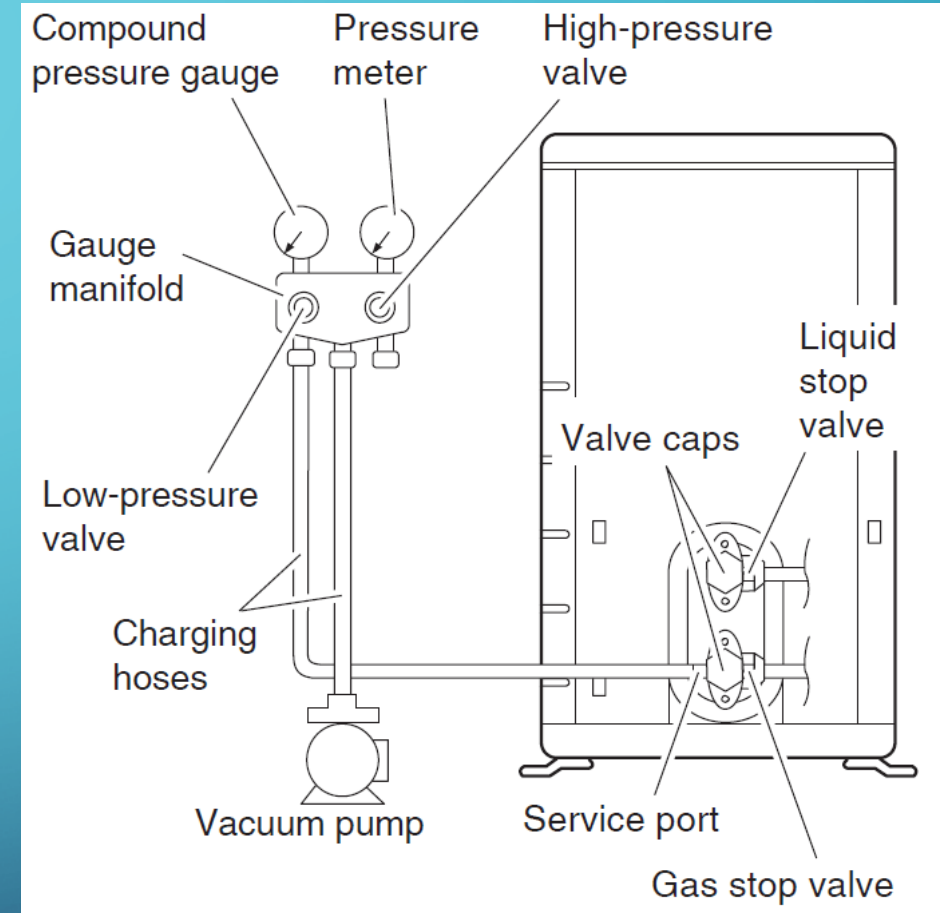
Cautions on pipe handling

- Protect the open end of the pipe against dust and moisture.
- All pipe bends should be as gentle as possible. Use a pipe bender for bending.
- ACR Copper only.
- Use separate thermal insulation pipes for gas and liquid refrigerant pipes.



PRESSURE TEST & EVACUATING SYSTEM

- When piping work is complete, it is necessary to perform a pressure test and evacuate system with a vacuum pump.
- If using additional refrigerant, perform air purging of the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
- Use a hexagonal wrench (3/16 inch (4mm)) to operate the stop valve rod.
- All refrigerant pipe joints should be tightened with a torque wrench to the specified tightening torque.



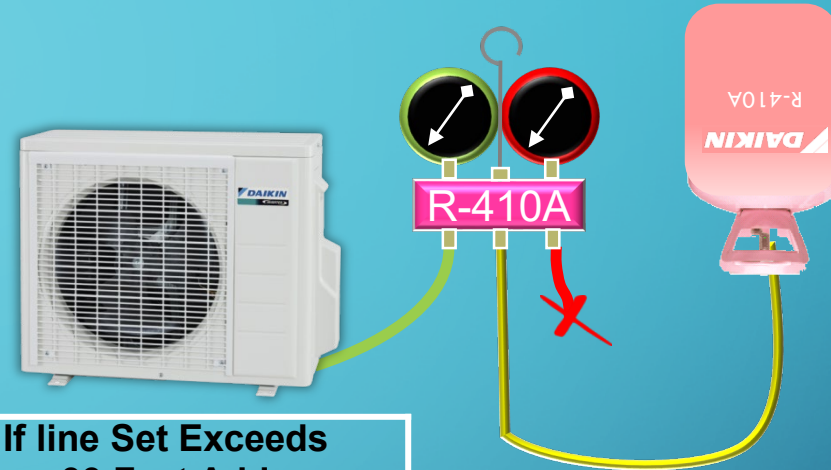
PRESSURE TEST & EVACUATING SYSTEM

1. Pressurize the liquid pipe and gas pipe from the service ports of each stop valve to 550psi (3.8MPa) (do not pressurize more than 550psi (3.8MPa)) for 1 hour minimum, 24 hours recommended. If there is a pressure drop, check for leaks, make repairs and perform the pressure test again.
2. Connect projection side of charging hose (which comes from gauge manifold) to gas stop valve's service port.
3. Fully open gauge manifold's low-pressure valve (Lo) and completely close its high-pressure valve (Hi). (High-pressure valve subsequently requires no operation.)
4. Triple evacuate system using vacuum pump to below 500 microns for 1 hour minimum.
5. Close gauge manifold's low-pressure valve (Lo) and stop vacuum pump. (Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.)*1
6. Remove covers from liquid stop valve and gas stop valve.
7. Turn the liquid stop valve's rod 90° counter-clockwise with a hexagonal wrench to open the valve. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods. After the check is complete, wipe all soapy water off.
8. Disconnect charging hose from gas stop valve's service port, then fully open liquid and gas stop valves. (Do not attempt to turn valve rod beyond its stop.)
9. Tighten valve caps and service port caps for the liquid and gas stop valves with a torque wrench to the specified torques.

ADDITIONAL REFRIGERANT CHARGE

Weigh in refrigerant

- Pre-charged up to 33ft
- Add 0.22oz per foot



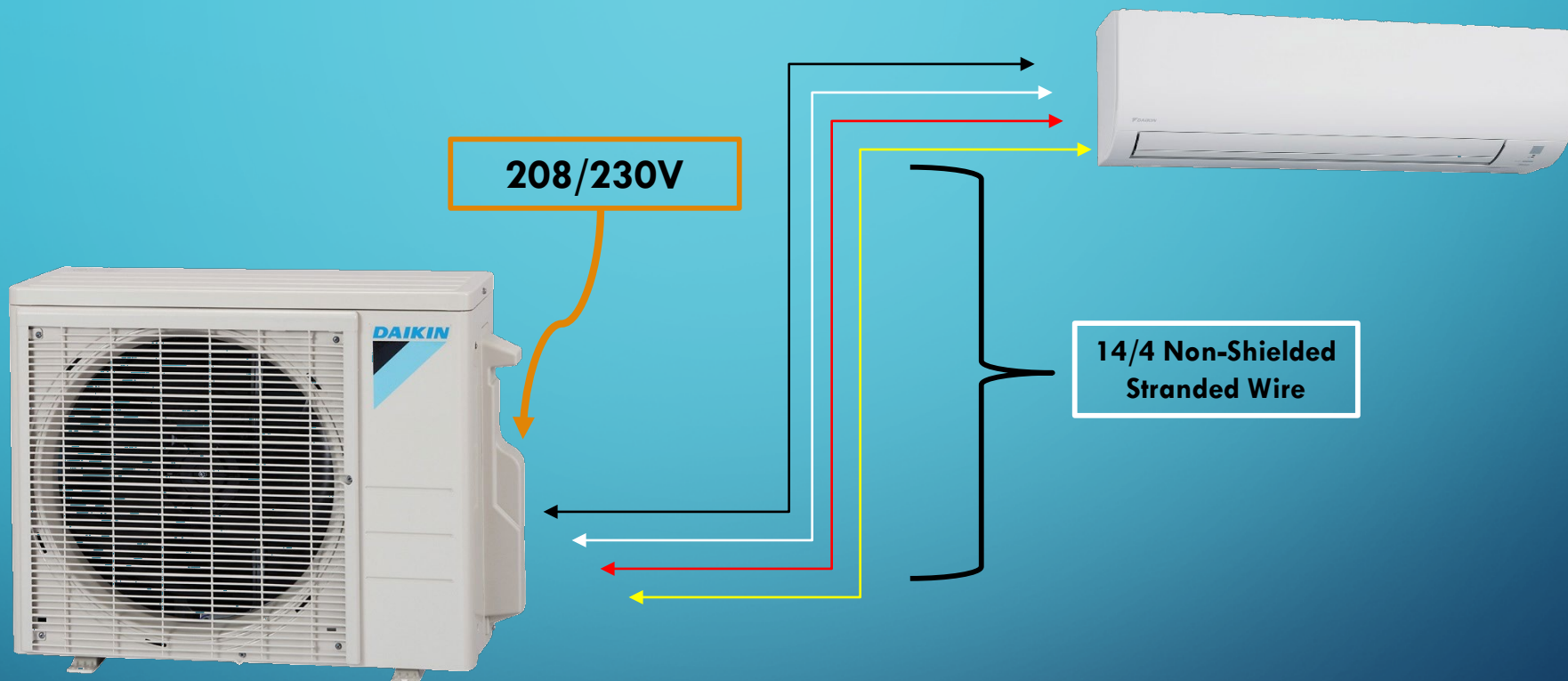
| RXN/RKN_KE | Factory Charge | If line Set Exceeds 33 Feet Add |
|------------|----------------|---------------------------------|
| 9,000 Btu | 1lb. 12 oz | .22 oz per foot |
| 12,000 Btu | 2lb. 3.2 oz | .22 oz per foot |
| 15,000 Btu | 3lb. 12 oz | .22 oz per foot |
| 18,000 Btu | 3lb. 12 oz | .22 oz per foot |
| 24,000 BTU | 3lb. 12 oz | .22 oz per foot |

| Outdoor Unit Model No. | | If line Set Exceeds 98 Feet Add |
|------------------------|------------|---------------------------------|
| 2MXS18GVJU | 5lb. 12 oz | .22 oz per foot |

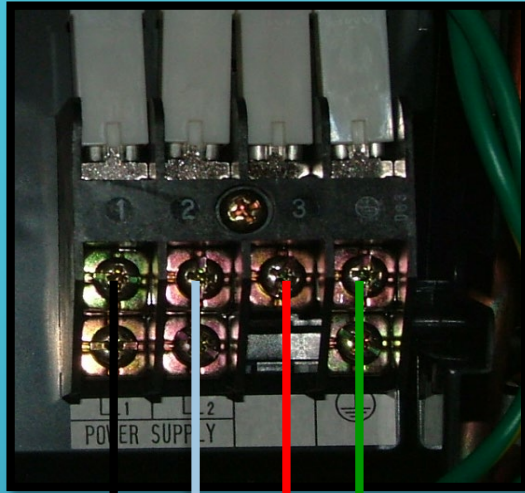
| Outdoor Unit Model No. | Factory Charge | If line Set Exceeds 131.5 Feet Add |
|------------------------|----------------|------------------------------------|
| 3MXS24 & 4MXS32GVJU | 6lb. 13 oz | .22 oz per foot |



Ductless Wiring: Outdoor Powers Indoor



DUCTLESS WIRING: OUTDOOR POWERS INDOOR



**14/4
Non-Shielded
Stranded
Wire**

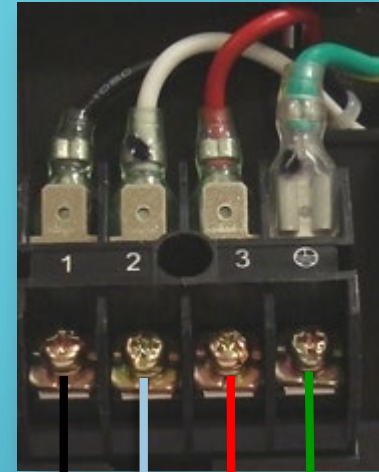
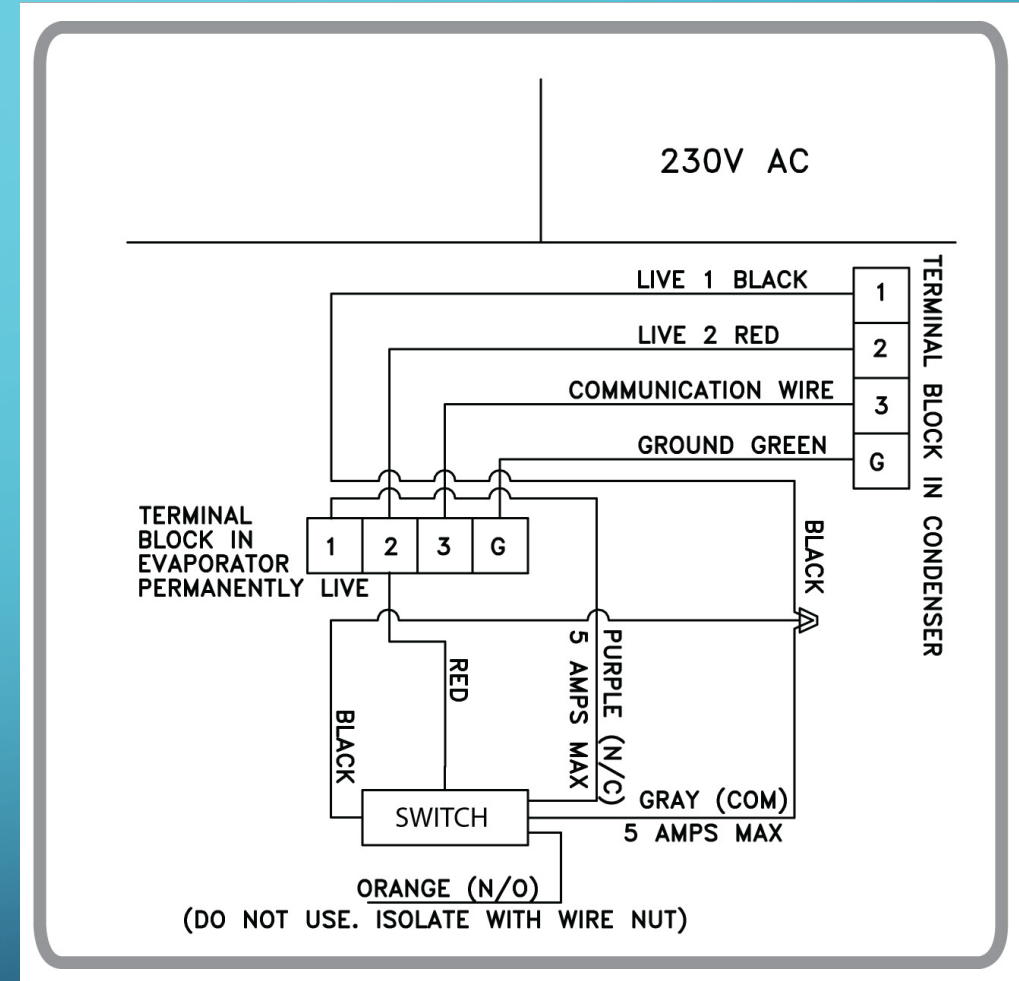


Illustration shows Single Split connections, other applications may differ.

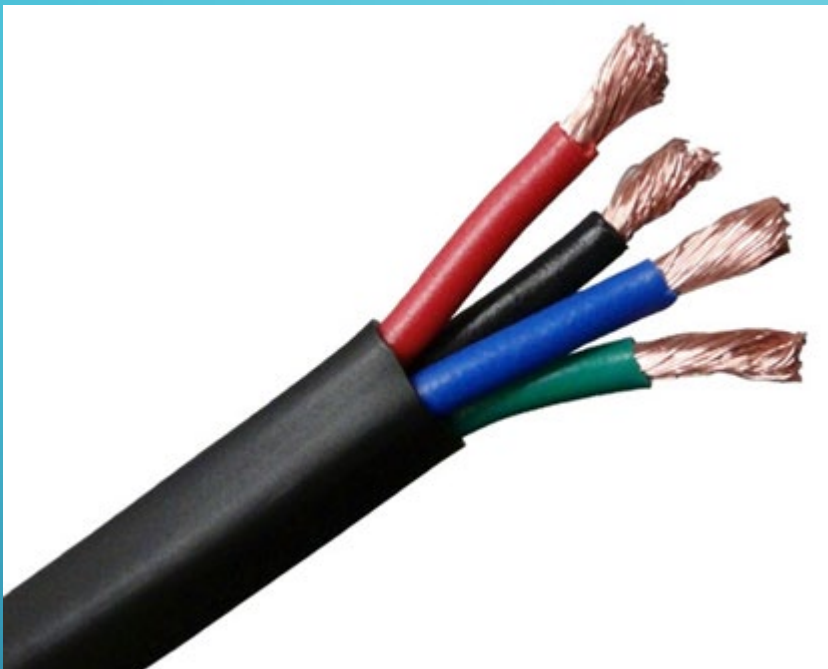
208/230V

SS610E CONDENSATE SENSOR WIRING

- For installation, Daikin AC recommends mounting the sensor on the right hand corner of the heat exchanger as facing the front of the fan coil and where the electrical box will be to the right of the fan coil.
- Once mounted at the appropriate height, Daikin AC recommends wiring the sensor assembly for mini split wall mounted units (FTXN, FTXS, FTXG, & CTXS models) as shown to the right
- Refer to the float switch installation manual for all other installation instructions



Shielded vs Non-Shielded Wire



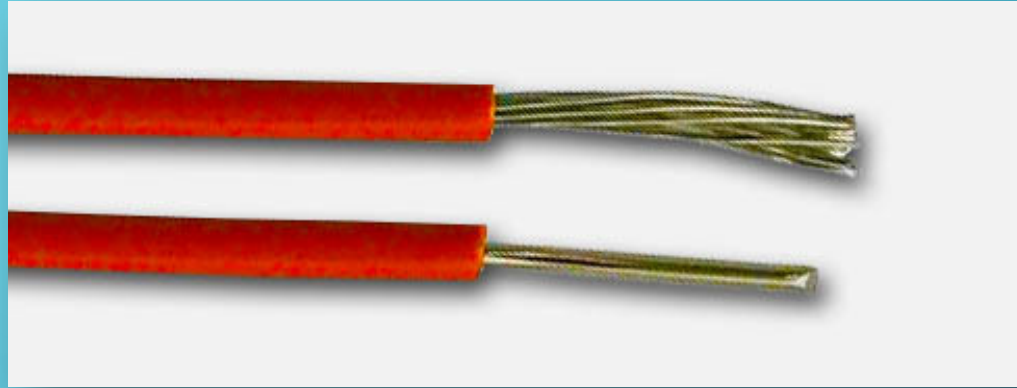
14/4 Non-Shielded Wire



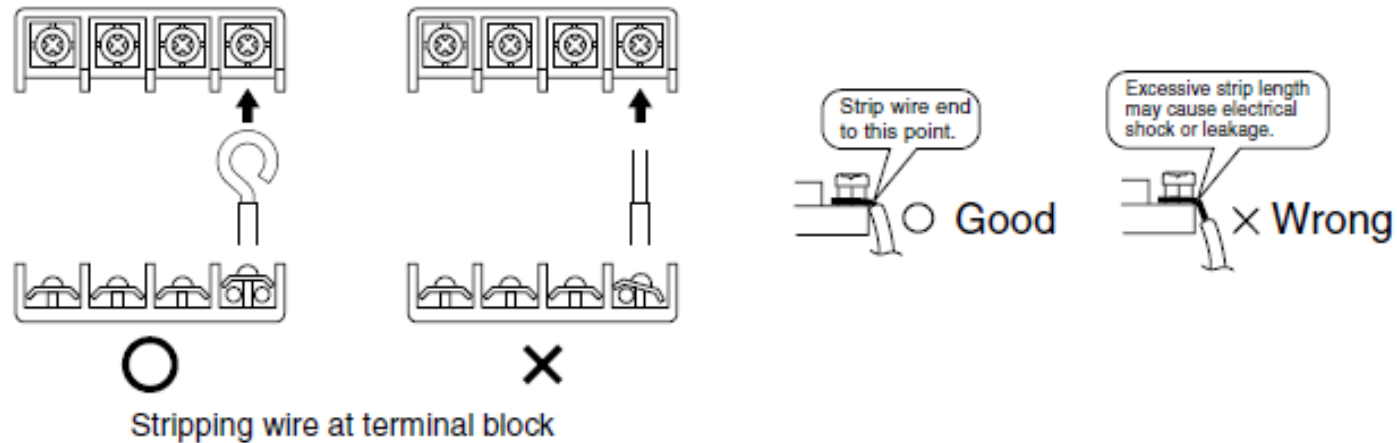
14/4 Shielded Wire

STRANDED VS SOLID CORE

- Solid core allowed on incoming 230V power only.
- 14/4 will cover all applications no matter the length.



- When connecting the connection wires to the terminal board using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.



OPTIONAL LOW AMBIENT WIND BAFFLE

- Allows system to cool down to **ZERO** degrees outdoor ambient. *On select systems



INSTALL A SURGE PROTECTOR (RECOMMENDED) ICM-493

- Protects against over and under voltage, rapid short cycling caused by transients, and high-power surges
- Ideal for mini-splits or other condensing units
- Easy to view, backlit digital display
- Bank of five L-L surge arresters
- Built-in 40A contactor
- Waterproof, NEMA-rated 3R enclosure for outdoor use
- Easy installation and setup

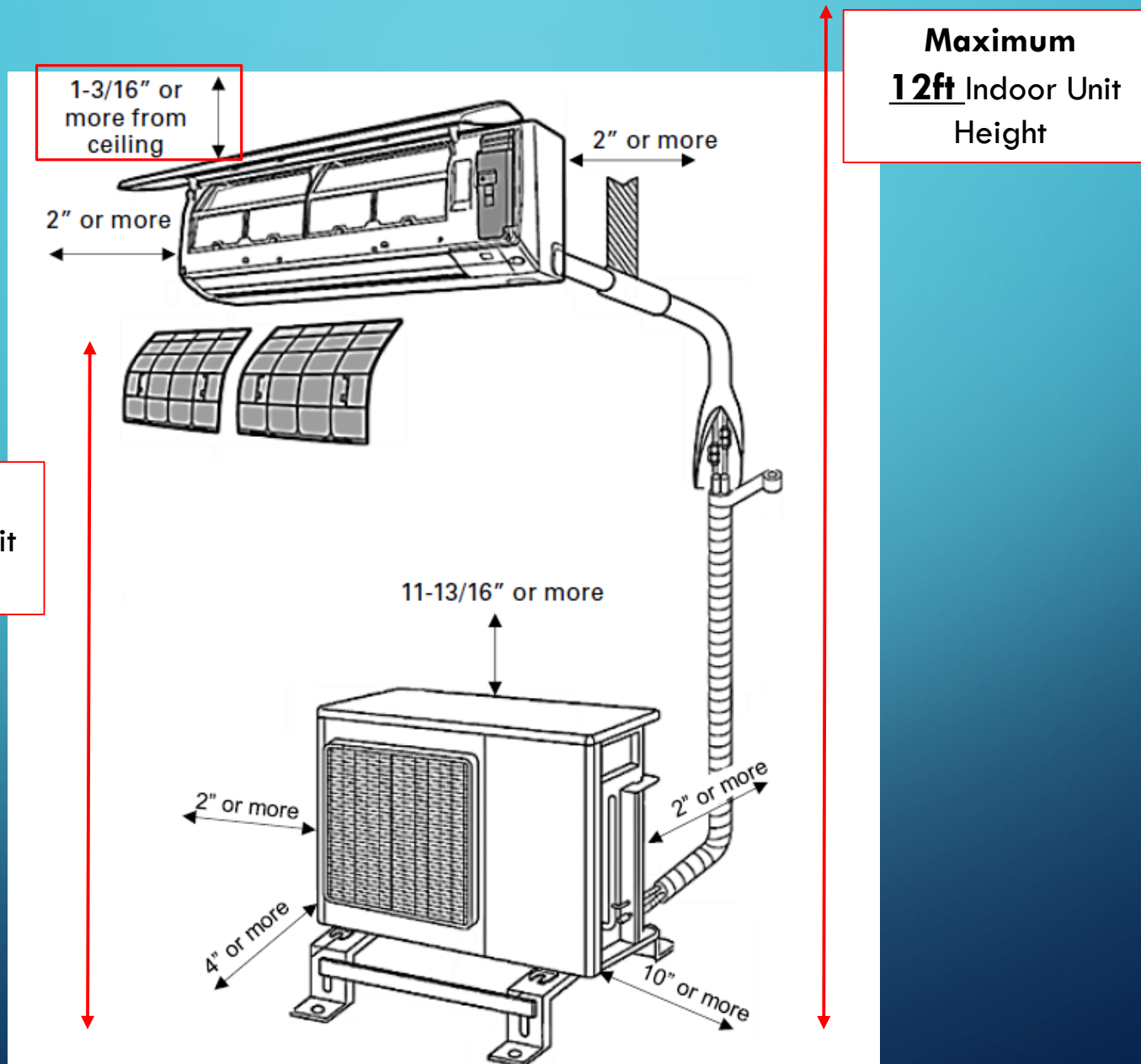


PRODUCT INSTALLATION

INDOOR WALL MOUNT UNITS



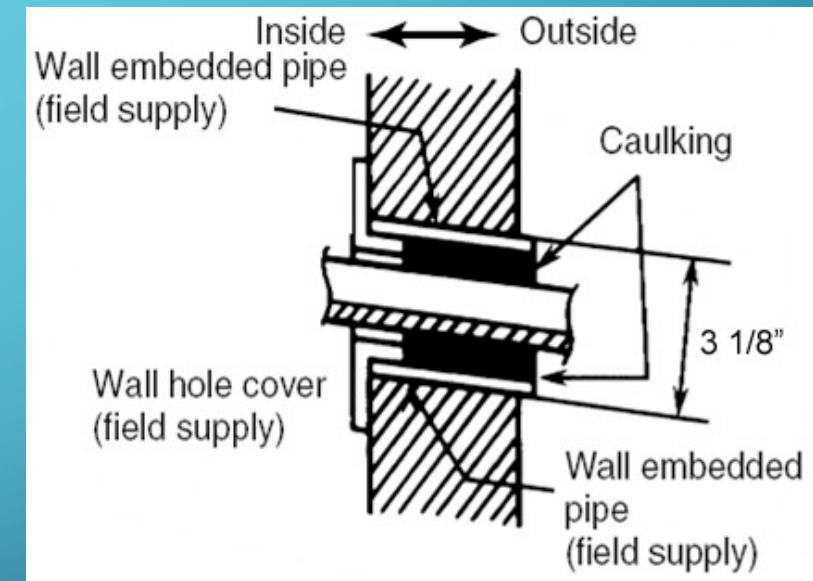
WALL MOUNT SYSTEM CLEARANCES



CONDENSATE GRAVITY DRAIN – FILL IN THE WALL

When installing refrigerant pipe and drain pipe through exterior wall:

1. Bore a 3 1/8" diameter hole through the wall sloping toward the exterior.
2. Insert wall pipe (feed tube) into the hole.
3. Insert wall hole cover into the wall pipe.
4. After completing refrigerant piping, wiring and drain piping, fill all gaps and spaces with caulk or foam to prevent water leaks, outside air infiltration, and sheetrock dust.



Sealing hole prevents hot or cold air from interfering with temperature sensing thermistors

CONDENSATE REMOVAL: LOTS OF OPTIONS



Sauermann Si-30



ASPEN Mini White



Diversitech Clearvue Mini



Refco Gobi Pump



Blue Diamond Pumps



ASPEN Maxi Orange



ASPEN Mini Aqua

CONDENSATE REMOVAL OPTIONS: ASPEN MINI WHITE



Advantages:

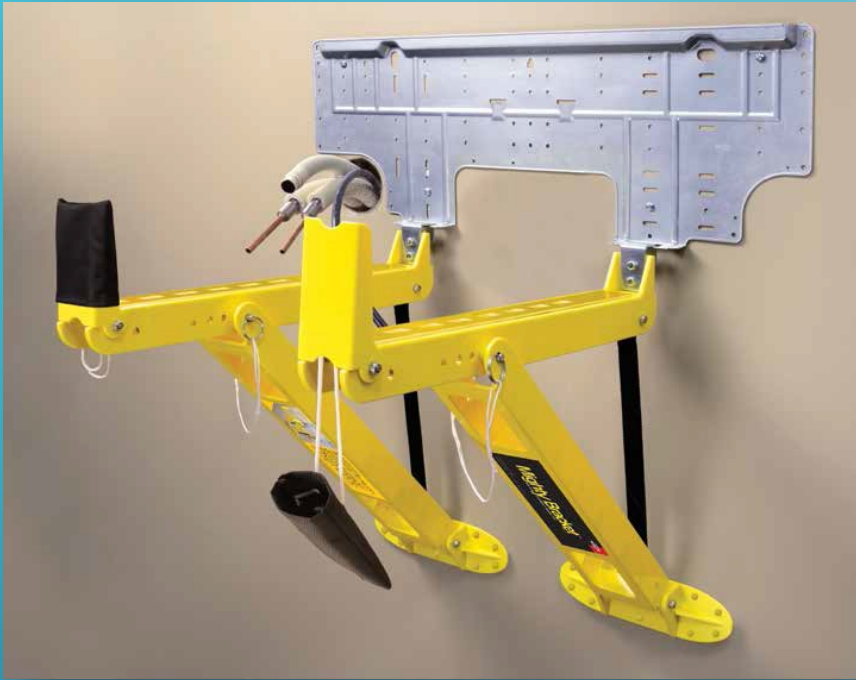
- Easy access for service
- Externally mounted
- 33ft Lift

Disadvantages:

- Less aesthetic appeal



MIGHTY BRACKET - MINI SPLIT INSTALLATION SUPPORT TOOL



- Attach Bracket Mounting Hooks to Mounting Plate Tabs
- Place Bracket Foot Supports against wall
- Level Bracket Arms with Support Pins
- Set Air Handler Section on Support Bracket
- Connect Lines & Electrical Hook-up
- Lift and Secure Air Handler to top Mounting Plate Tabs
- Remove Temporary Installation Bracket

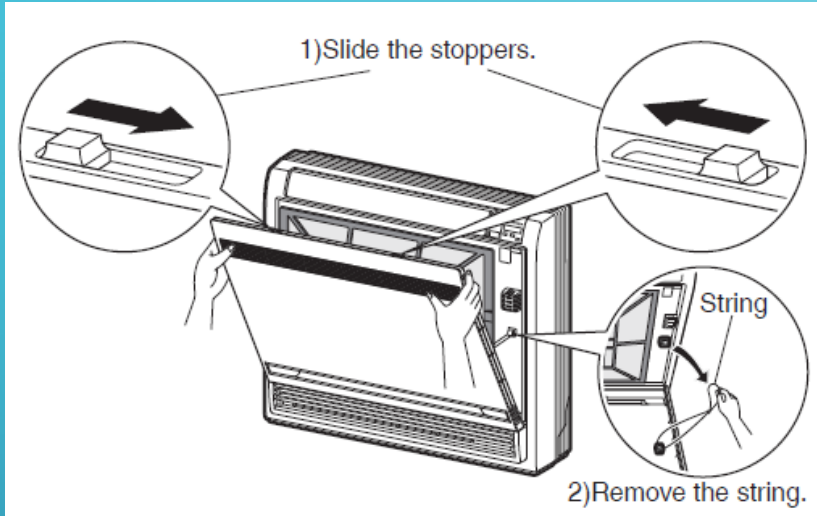
PRODUCT INSTALLATION

INDOOR FLOOR MOUNT UNITS

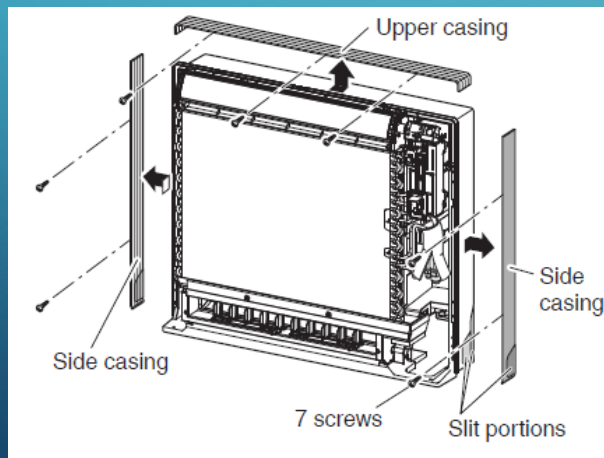


FLOOR STANDING INSTALL

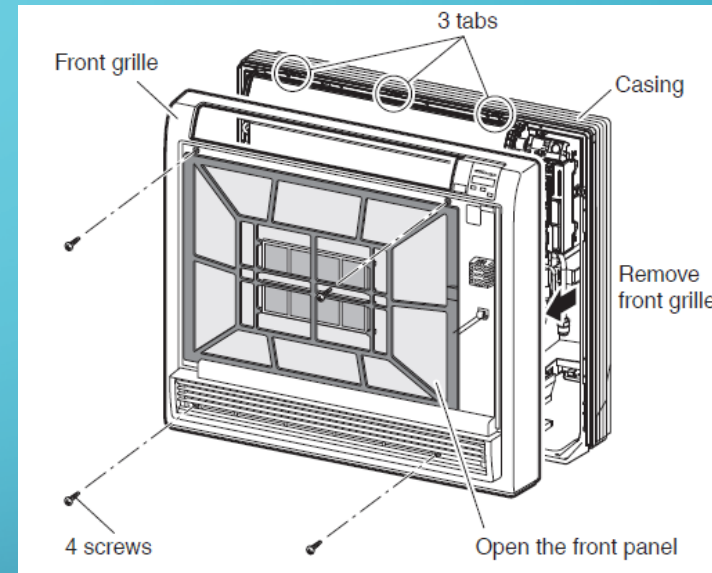
■ Step 1: Remove Front Panel



■ Step 3: Remove Upper & Side Casings

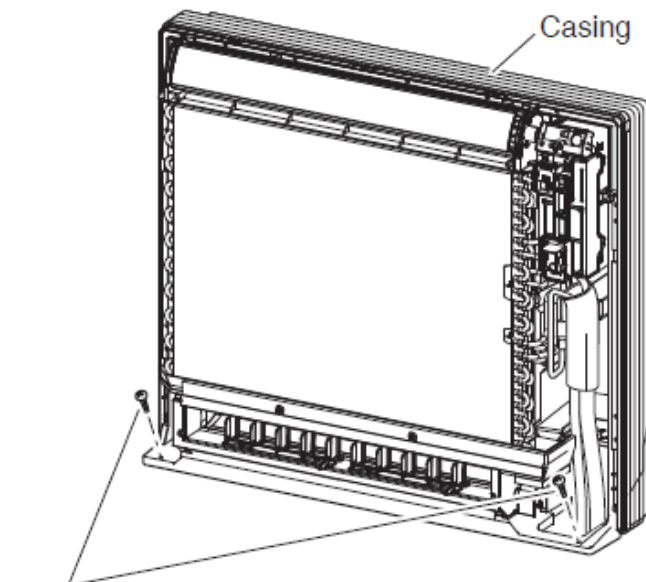


■ Step 2: Remove Front Grille

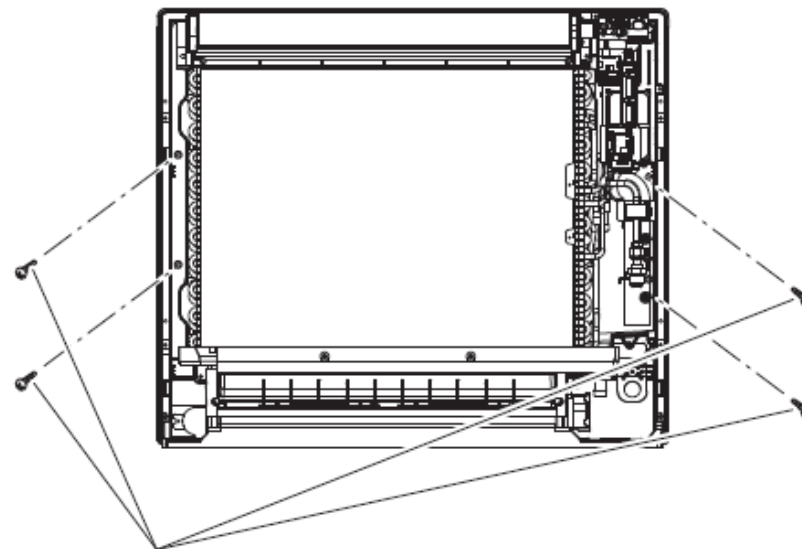


FVXS FLOOR INSTALLATION

- Secure the indoor unit using 6 screws. (2 screws for floor and 4 screws for rear wall)



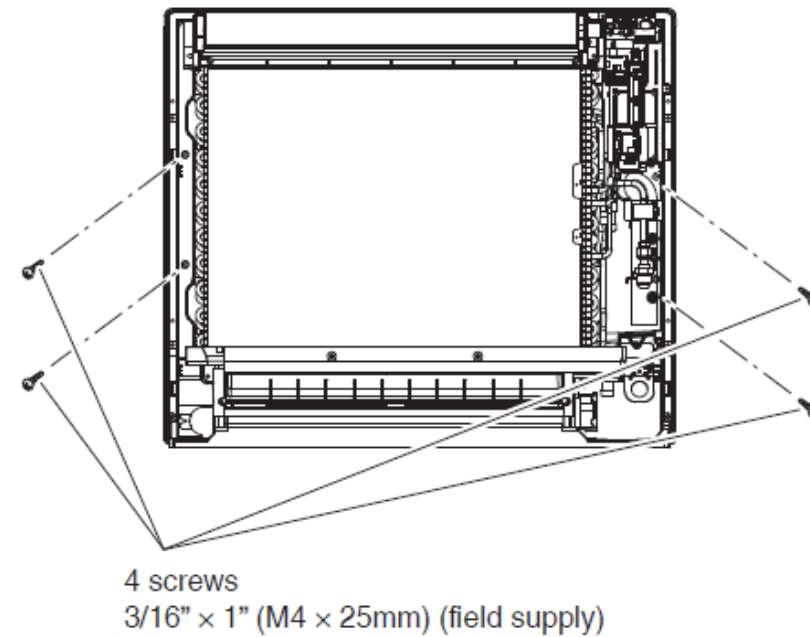
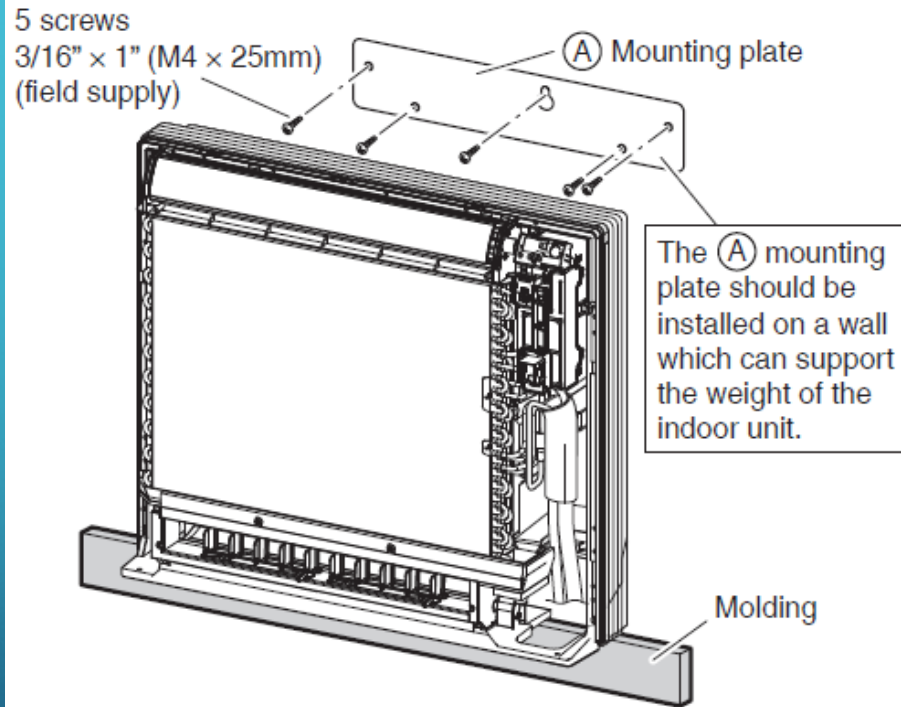
2 screws
3/16" × 1" (M4 × 25mm) (field supply)



4 screws
3/16" × 1" (M4 × 25mm) (field supply)

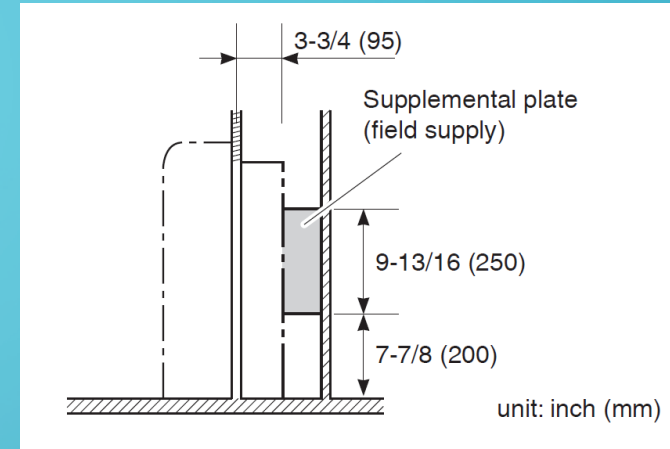
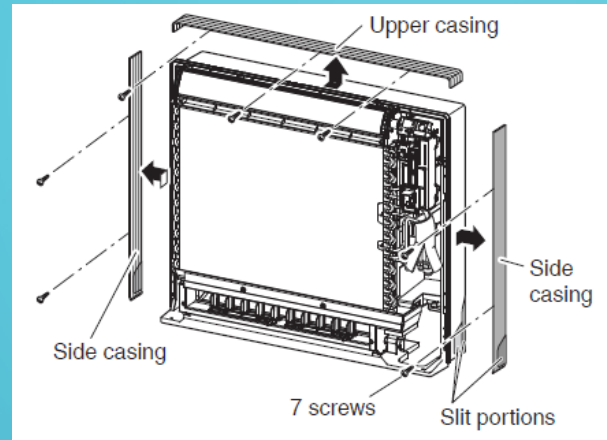
FVXS WALL INSTALLATION

- Secure the (A) mounting plate using 5 screws.
- Secure the indoor unit using 4 screws for rear wall.

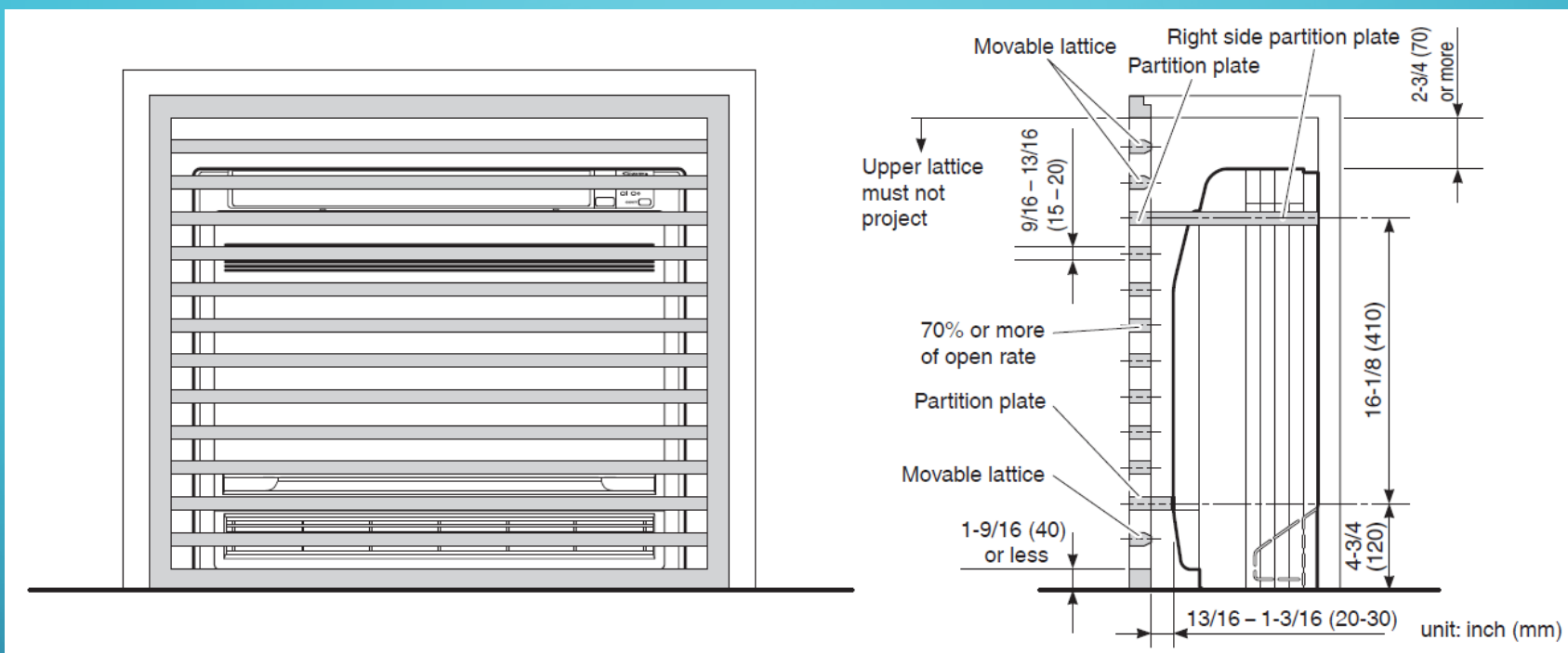


FVXS PARTIALLY RECESSED

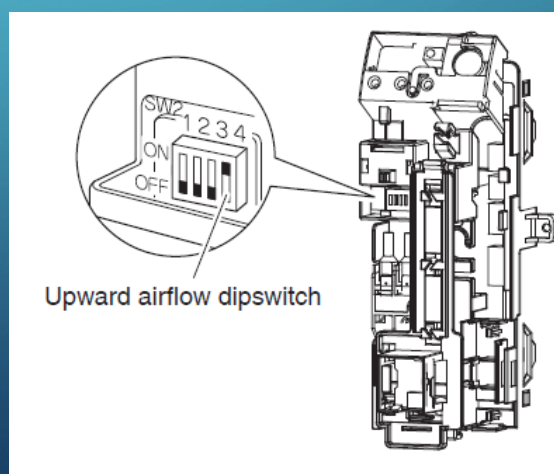
- Remove 3 side casing. Recess into wall.



FVXS CONCEALED/FULLY RECESSED



- When fully recessed make sure to turn dipswitch SW2-4 to ON position. This will limit upward airflow and force side discharge.



FVXS AIRFLOW





PRODUCT INSTALLATION

INDOOR CEILING CASSETTE UNITS



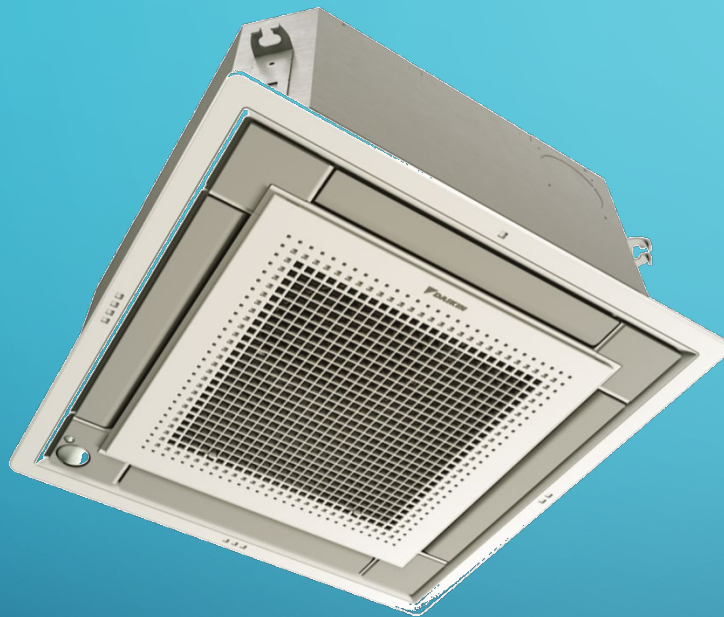


VISTA

CEILING CASSETTE

VISTA 1:1 CEILING CASSETTE

1:1 and Multi-Port (MXS/MXL)



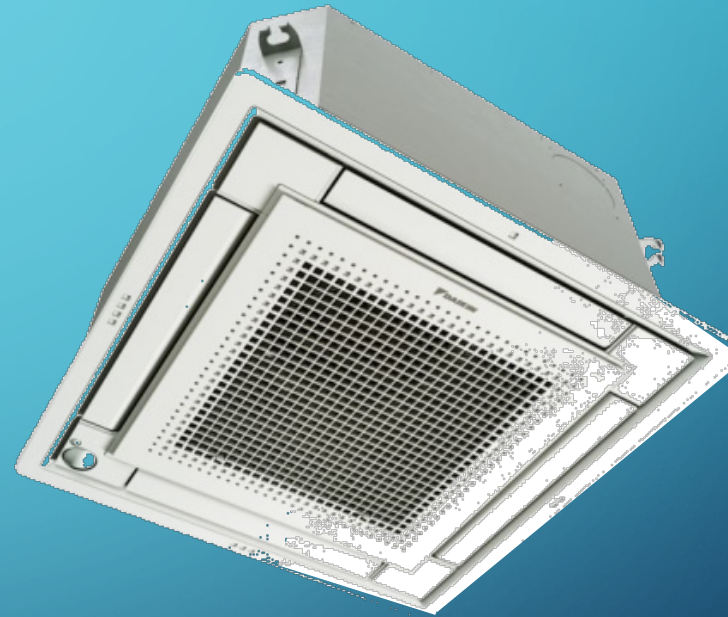
Silver Finish Décor Panel

BYFQ60C2W1S

FFQ09Q2VJU

FFQ12Q2VJU

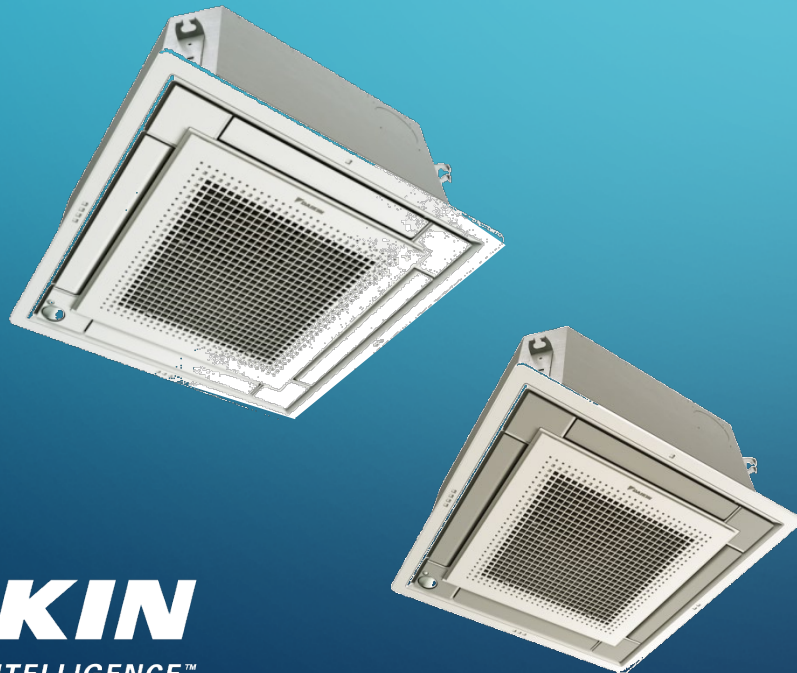
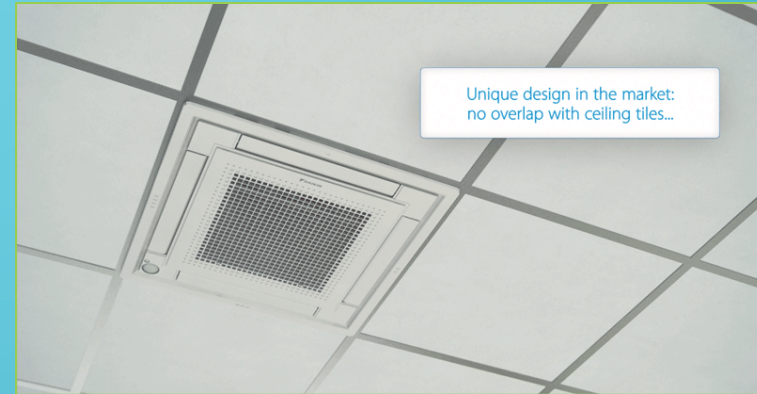
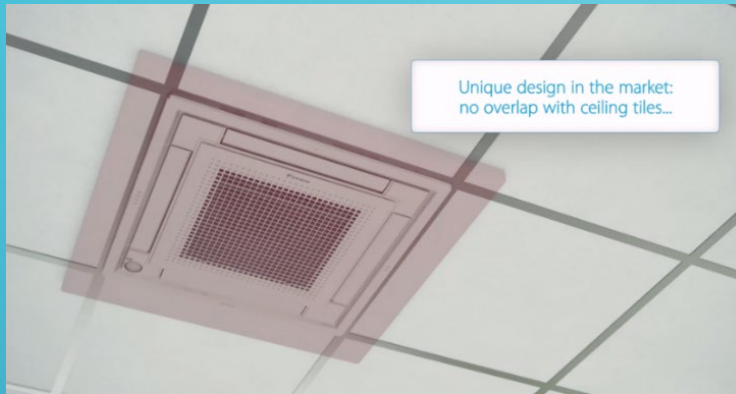
FFQ15Q2VJU



White Finish Décor Panel

BYFQ60C2W1W

VISTA CEILING CASSETTE 1ST OF ITS KIND



VISTA CEILING CASSETTE FEATURES

Control Options



BRC1E73



BRC082A42W Bright White
BRC082A42S Silver

VISTA CEILING CASSETTE FEATURES

- BRYQ60A2W Sensor kit White
- BRYQ60A2S Sensor kit Silver

Sensor kit

BRYQ60A2W

use

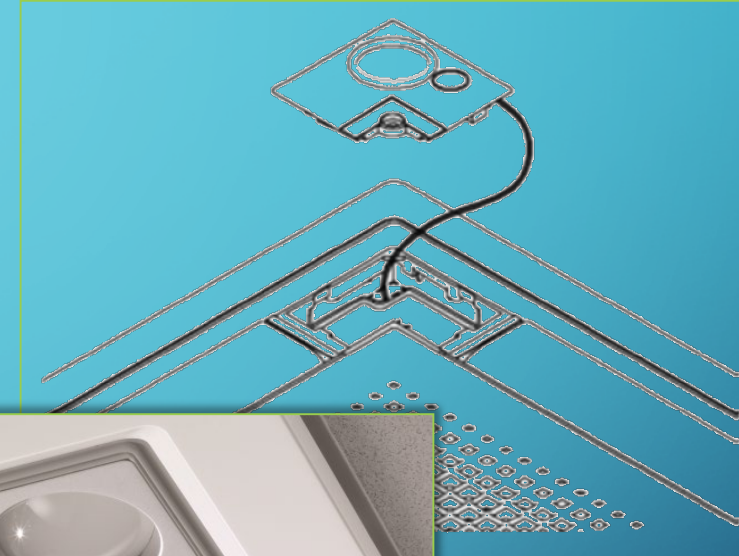
BRYQ60A2S

use

Decor Panel

BYFQ60C2W1W

BYFQ60C2W1S



BRYQ60A2(W/S)

Note: When the BRYQ60A2(W/S) is used
a wired controller must be used.

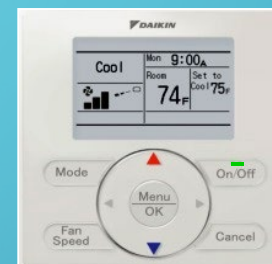
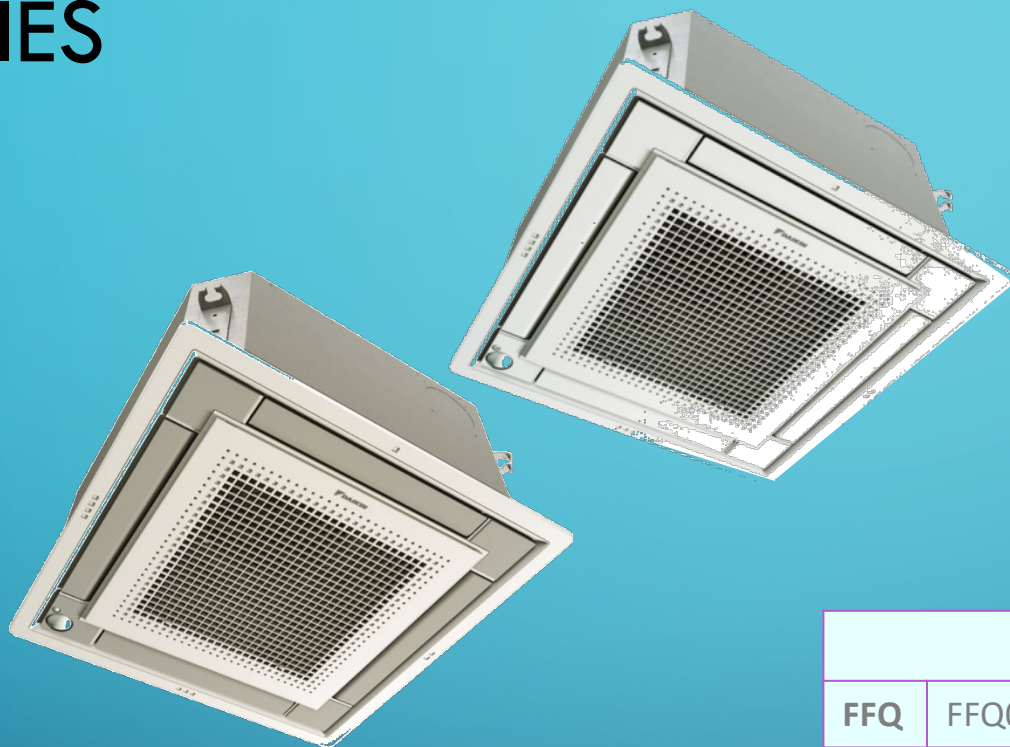
VISTA CEILING CASSETTE FEATURES

Presence & Floor Sensor

- Reduces energy consumption by adjusting set temperature if there are no people in the room
[Presence sensor]
- Improves customer comfort by directing the airflow away from the people observed in the room and hence preventing draught
[Presence sensor]
- Improves customer comfort in heating by avoiding stratification of the temperature in the room and thus avoiding cold feet
[Floor sensor]



MULTI-PORT CASSETTE 2X2 FFQ MODEL – VISTA SERIES



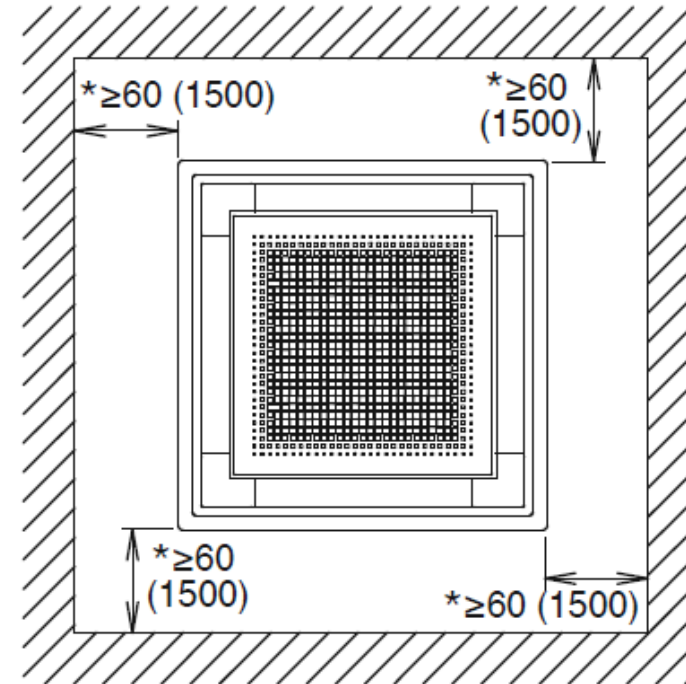
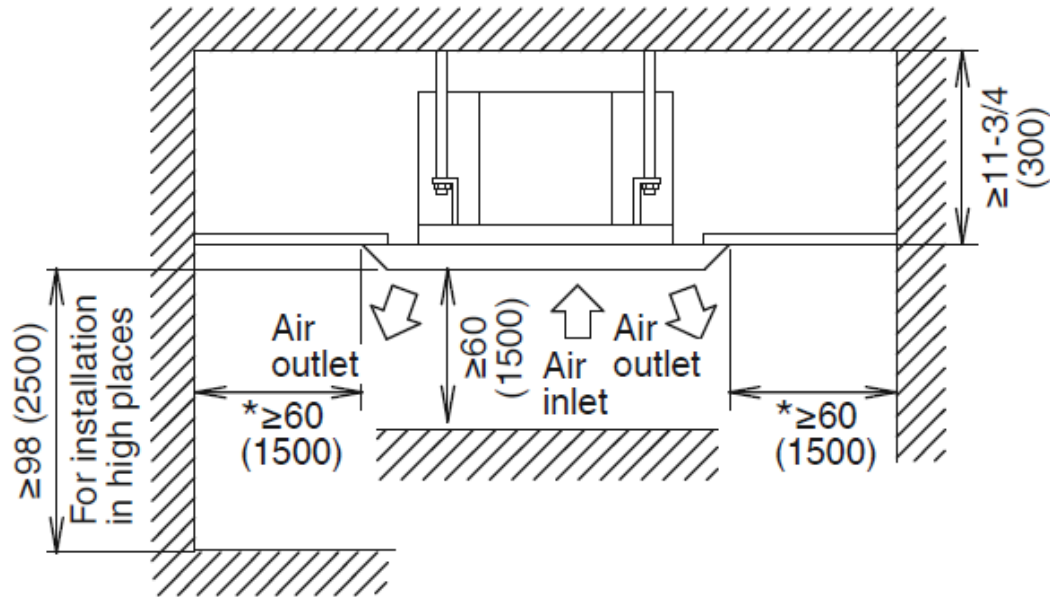
Required

| Available Models | | | | |
|------------------|-------|-------|-------|-------|
| FFQ | FFQ09 | FFQ12 | FFQ15 | FFQ18 |

- Enhanced comfort with uniform airflow and temperature distribution
- Draught free protection with horizontal air discharge
- Simple installation with a true 2X2 decoration panel
- Easy maintenance with an easy-to-clean grille and washable long life filter

FFQ CEILING CASSETTE DIMENSIONS

Installation Space Requirements



unit:inch (mm)

CASSETTE AIR FLOW OPTIONS



4-Way Flow



3-Way Flow

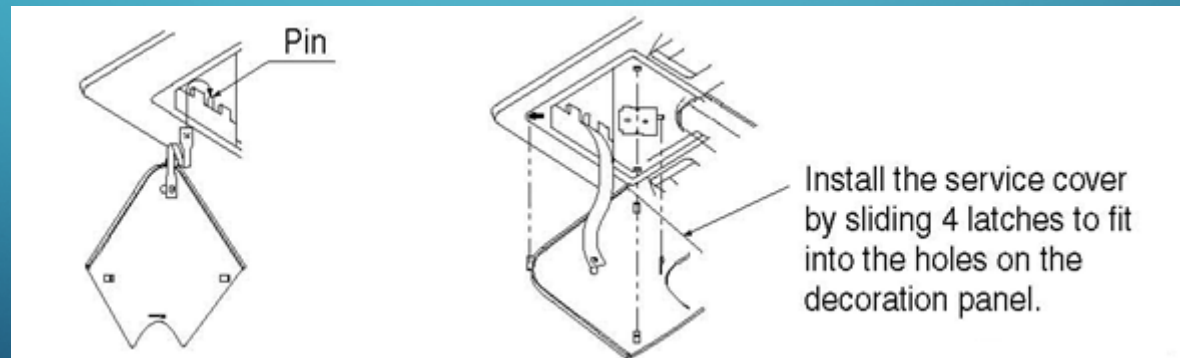
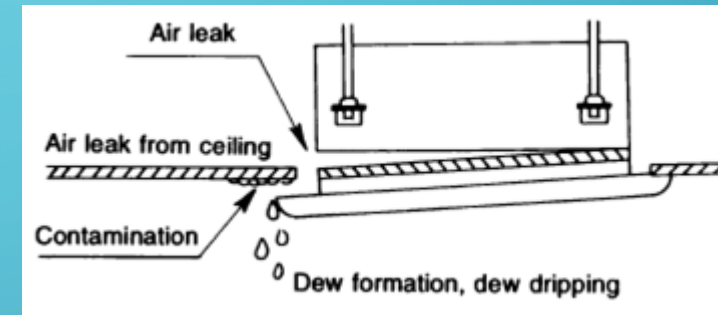
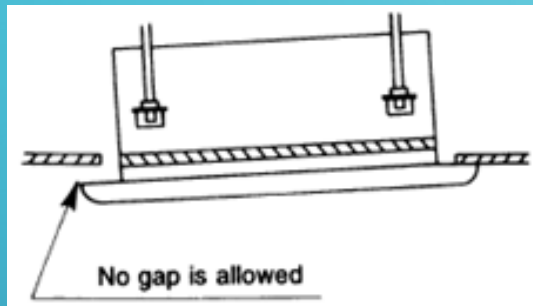


2-Way Flow

- Comes standard 4-way. Must purchase accessory kit to block off other sides.

FFQ Decoration Panel Installation

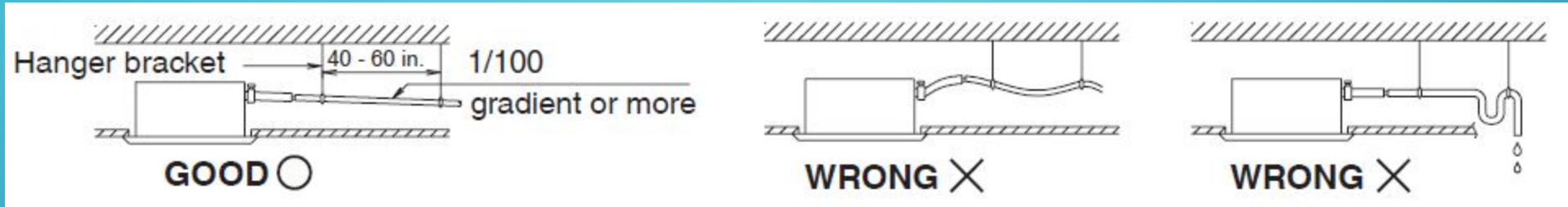
If a gap exists between the ceiling and the decoration panel after screwing in the screws, readjust the indoor unit body height to close gap.



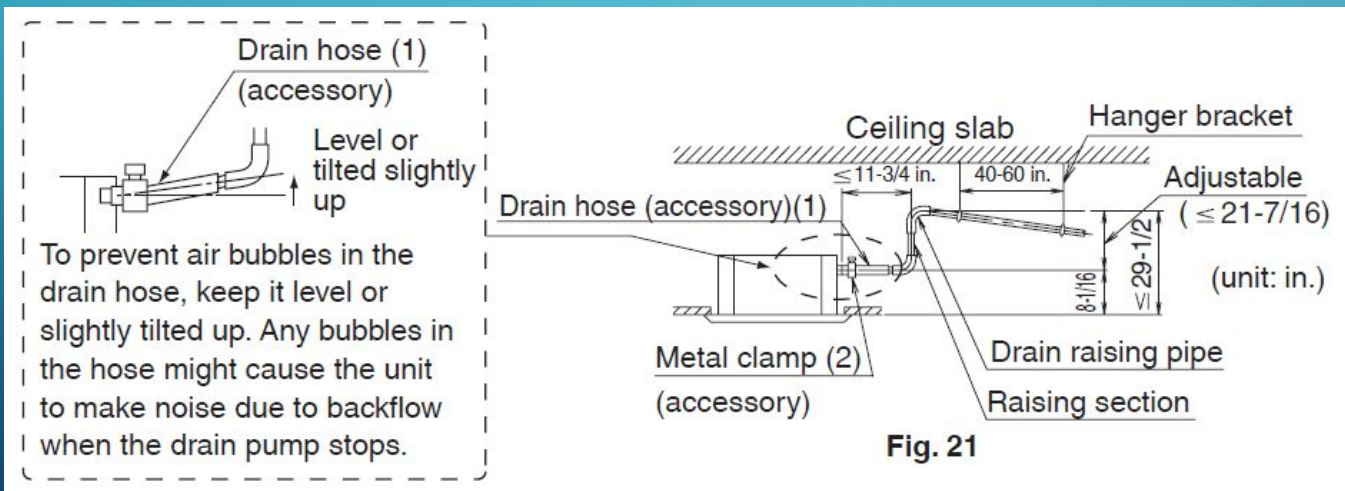
FFQ – CEILING CASSETTE DRAIN PIPING

Built-in pump with **21 INCHES** of lift

Sloped Piping

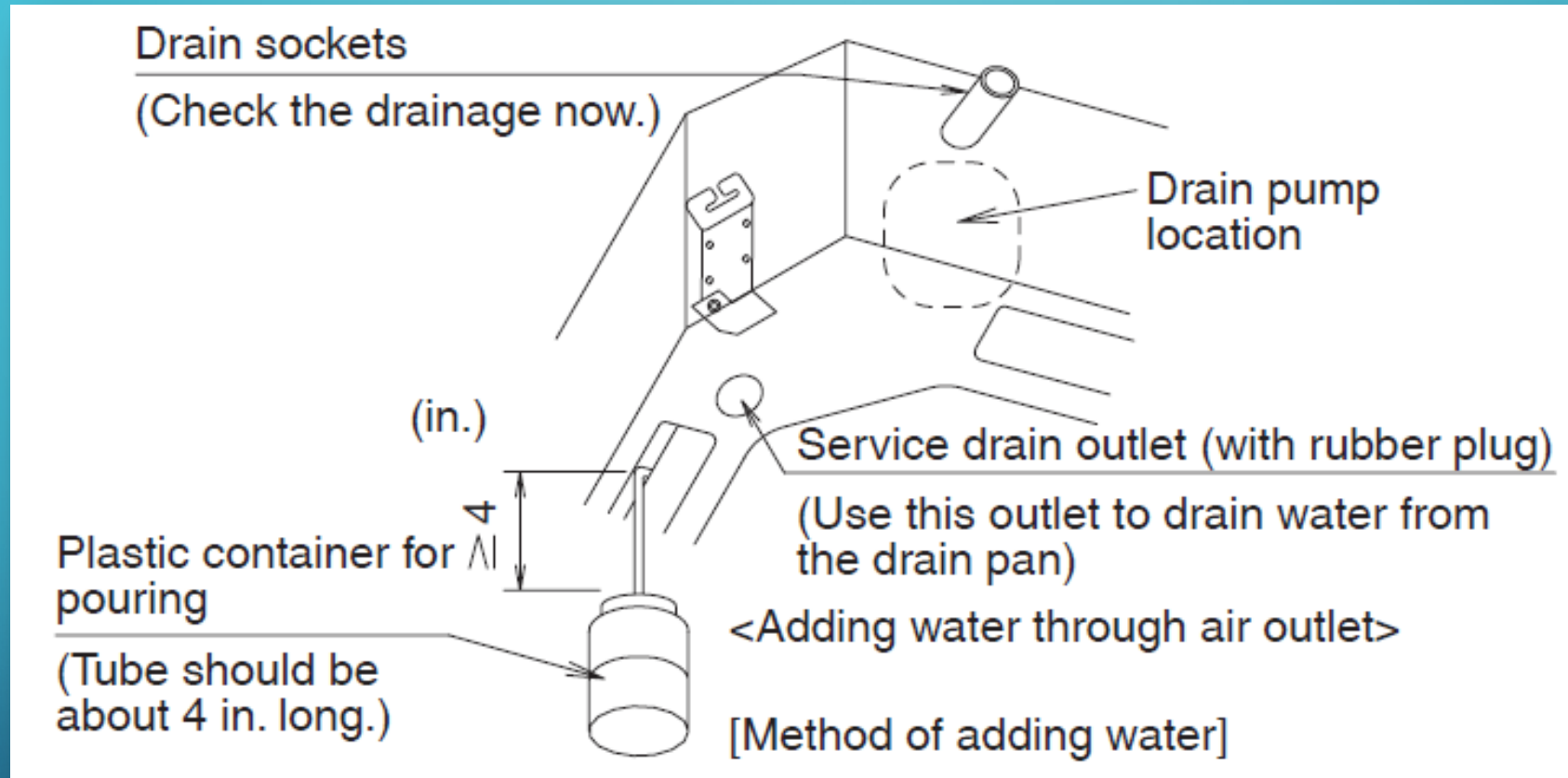


Raised Drain Piping



- Raised pipes height of less than 21-7/16in
- Install at right angle at no more than 11-3/4in from unit

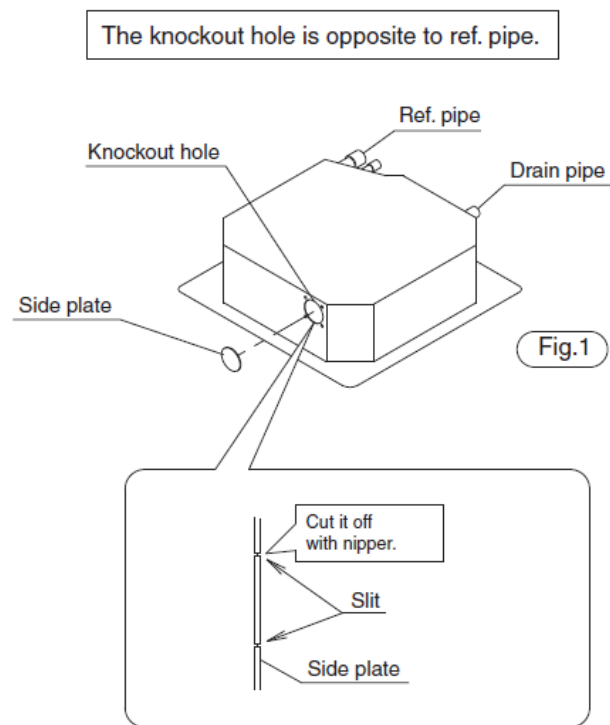
ACCESSING THE DRAIN



- Easy Access from Bottom of Unit to Drain

FFQ CASSETTE FRESH AIR INTAKE ACCESSORY

1. Cut off the knockout hole on the side plate. (Fig.1)

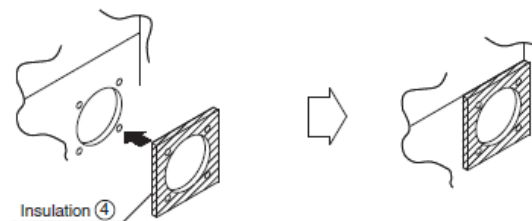


<KDDQ44XA60> Fresh Air Intake Kit

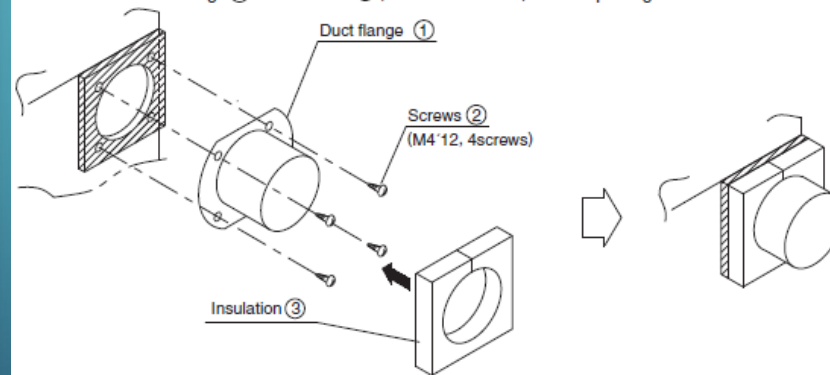
2. Adhere the insulation ④ for opening of unit to the opening. (Fig. 2)

Attach the insulation ④ designed to fit the hole in the indoor unit.

Attach the insulation ④ without concealing the screw hole of the indoor unit.



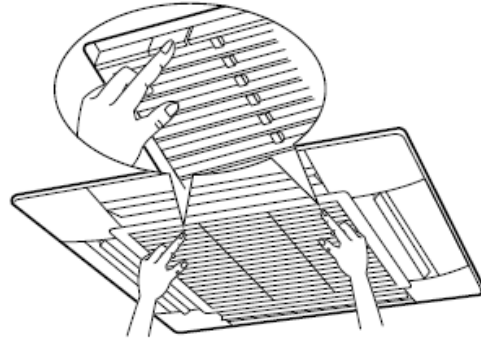
3. Install the duct flange ① with screws ② (M4*12, 4 screws) to the opening and adhere the insulation ③ (Fig. 3)



FFQ CEILING CASSETTE FILTER SYSTEM

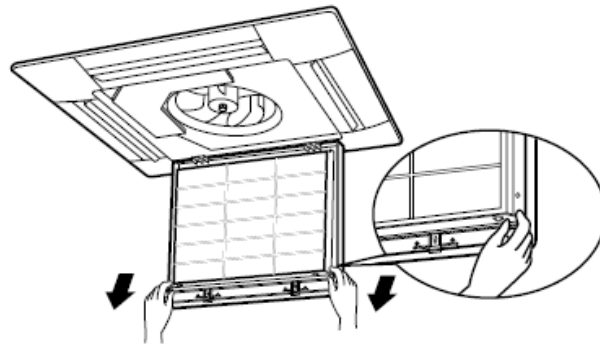
1. Open the suction grille.

Push it downward slowly while pressing the buttons provided on two spots.
(Follow the same procedure for closing.)



2. Detach the air filter.

Pull the hook of the air filter out diagonally downward, and remove the filter.



3. Clean the air filter.

Use vacuum cleaner **A)** or wash the air filter with water **B)**.

A) Using a vacuum cleaner



B) Washing with water

When the air filter is very dirty, use soft brush and neutral detergent.



Remove water and dry in the shade.

- Easy filter removal for maintenance

PRODUCT INSTALLATION

INDOOR DUCTED UNITS



FDMQ/FBQ INSTALLATIONS

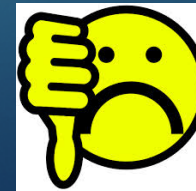
GOOD 👍😊

Insulating unit cabinet is recommended, when not in conditioned space!

Min. 30" clearance required under unit.



FDMQ/FBQ INSTALLATIONS

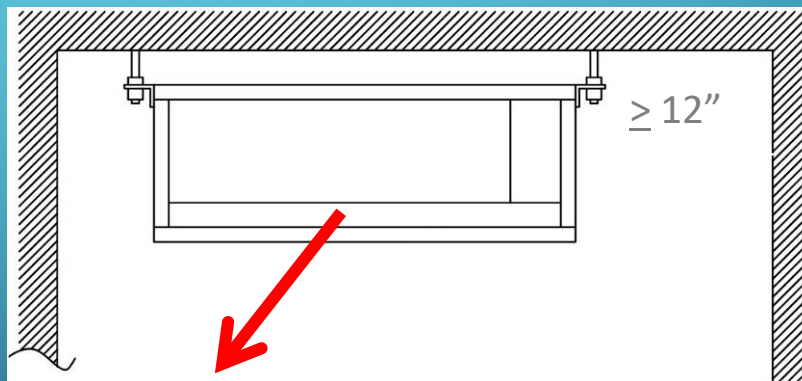
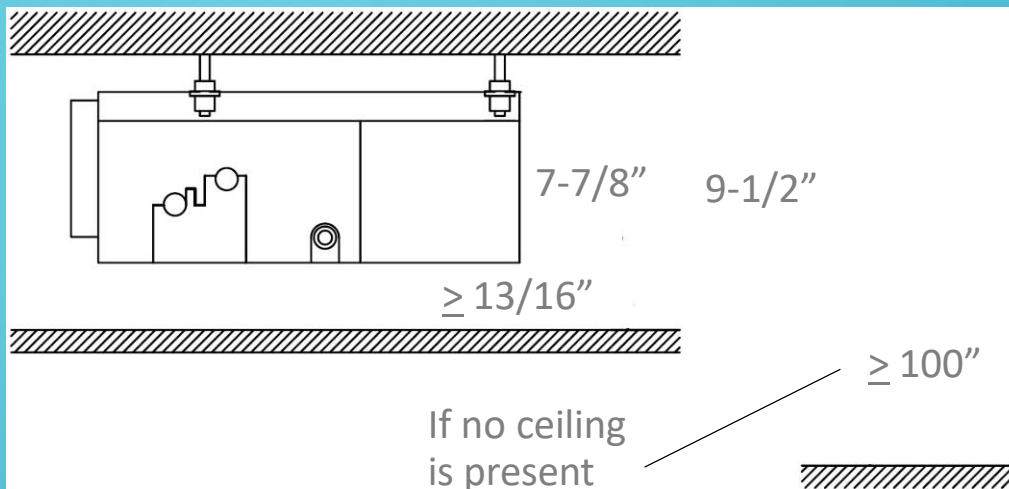
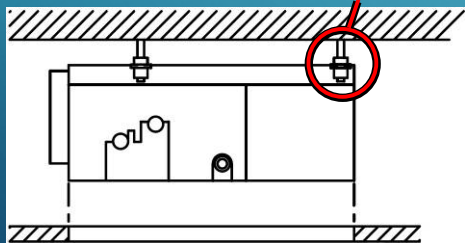
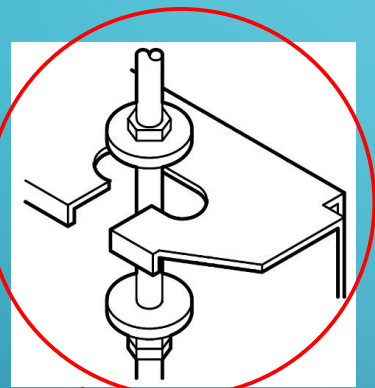


SLIM DUCT INDOOR UNITS



Supply Air

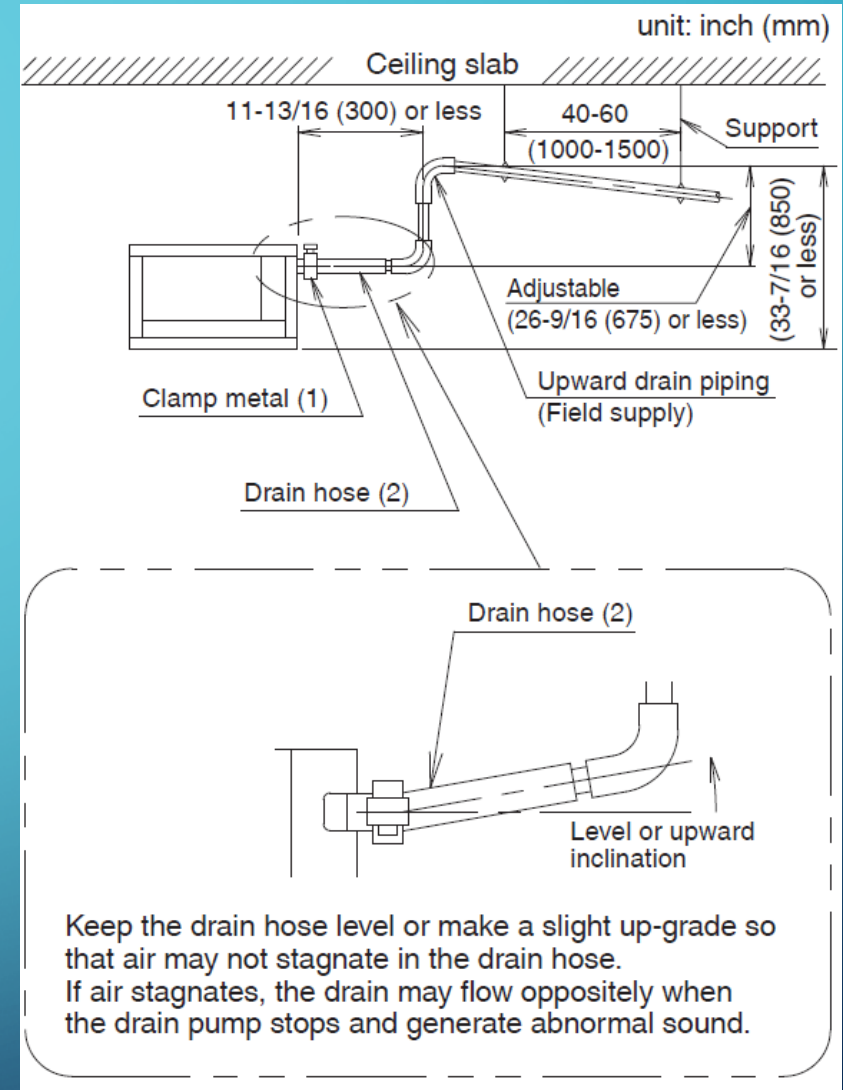
Control Box



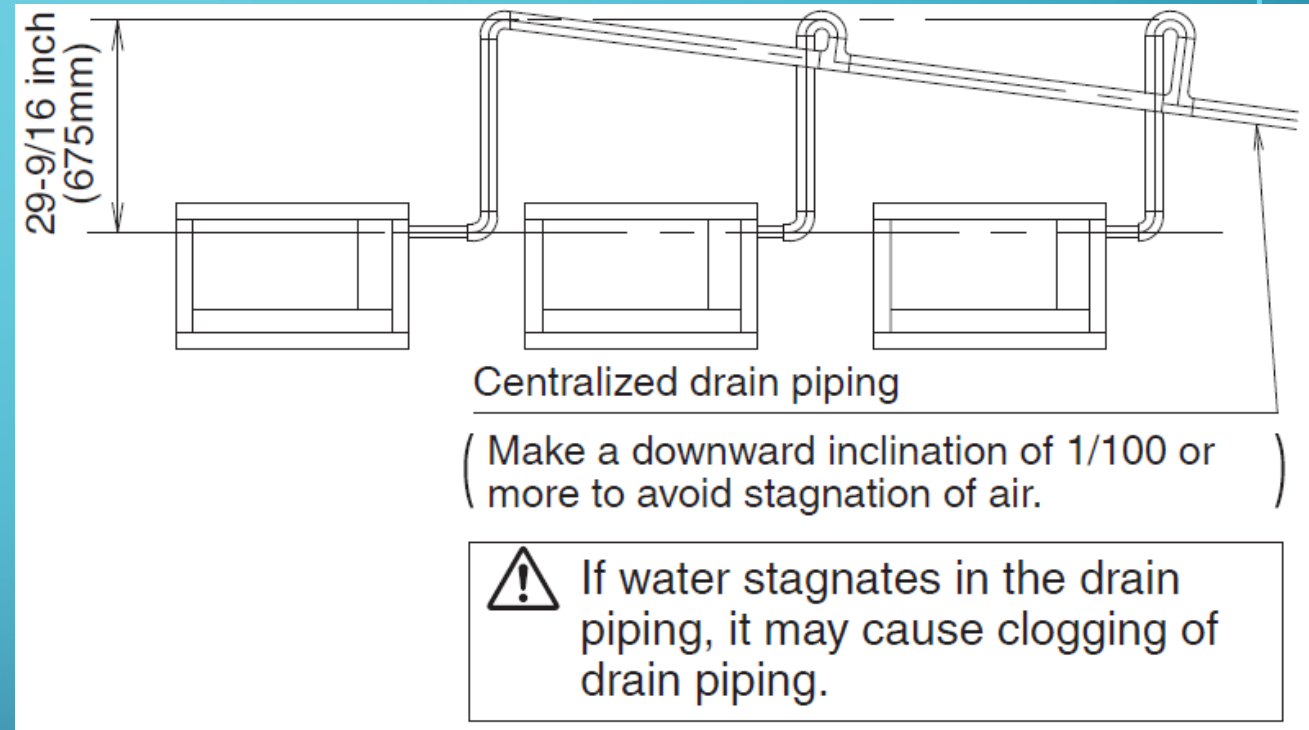
Supply Air

NOTE: Install the signal receiver, which has a built-in temperature sensor, near the intake vent where there is convection of air and it can get an accurate reading of the room's temperature.

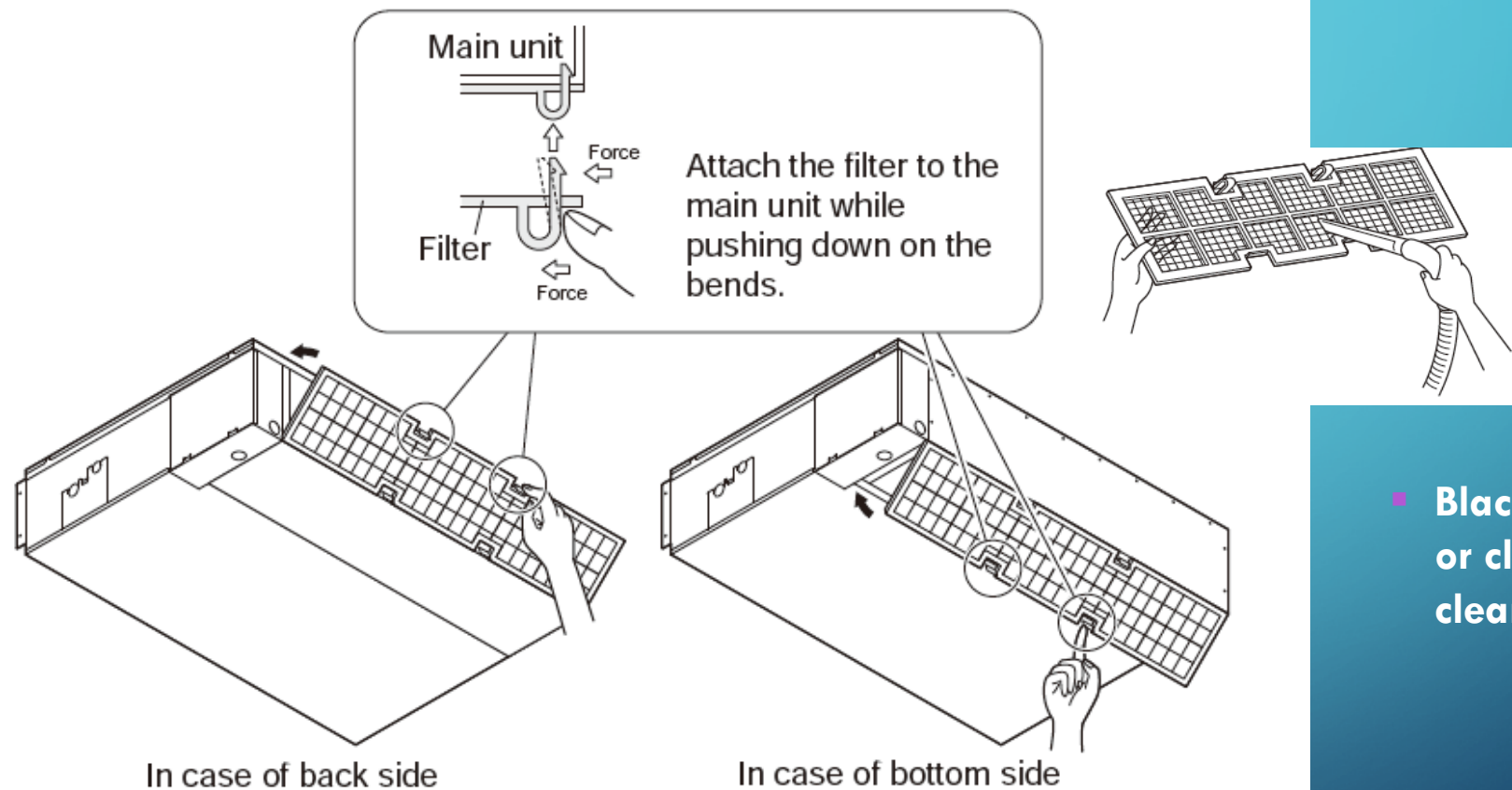
- The maximum height of the drain riser is 29-9/16 inch (675mm). Since the drain pump mounted on this indoor unit is a high head type, from the characteristic point of view, the higher the drain riser the lower the draining noise. Therefore, the drain riser of 11-13/16 inch (300mm) or higher is recommended.
- For upward drain piping, keep the horizontal piping distance of 11-13/16 inch (300mm) or less between the drain socket root to the drain riser.
- To avoid the attached drain hose (2) getting excessive force, do not bend nor twist it. It may cause water leakage.
- As for drain piping connection, do not connect the drain hose directly to a sewage that gives off ammonia odor. (The ammonia in the sewage may go through the drain piping and corrode the heat exchanger of the indoor unit.)



- In case of centralized drain piping, carry out piping work according to the procedure shown in the following.
- As for the size of centralized drain piping, select the size that meets the capacity of indoor units to be connected. (Refer to the technical document)
- Positioning the upward drain piping at an angle may cause float switch malfunction and lead to water leakage
- While replacing with new indoor unit, use the attached new drain hose (2) and the clamp metal (1). If an old drain hose or a clamp metal is used, it may cause water leakage.



SLIM DUCT FILTER SYSTEM



- Black mesh filter washable or cleaned with vacuum cleaner. Clean as needed.

PRODUCT INSTALLATION

MULTI-ZONE SYSTEMS





DA

Choose the BP unit type (2 rooms or 3 rooms) according to the installation pattern.



The number of indoor units is as shown in the table below.

| Outdoor unit | Total capacity of indoor units | Quantity of indoor units | |
|--------------|--------------------------------|--------------------------|------|
| | | Max. | Min. |
| RMXS48LVJU | 24000-62000 Btu/h | 8 | 2 |




Note that the total capacity of indoor units per BP unit is as shown in the table below.

| BP unit | Maximum capacity |
|-------------|------------------|
| BPMKS048A2U | 48000 Btu/h |
| BPMKS049A3U | 62000 Btu/h |

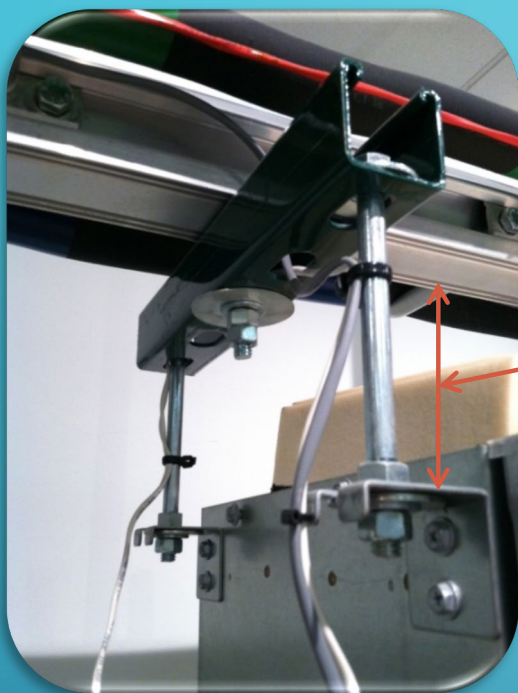
[Example]

For "FTXS24LVJU", the capacity of this indoor unit is 24000.

_____ Power supply line (3 wires) [60Hz 208/230V]
 *Outdoor unit and all BP units require their own power supply.
 Transmission line (2 wires)
 ----- Power supply and transmission line (4 wires)

 Piping
 Braze connection
 Flare connection

Allow Space For Service

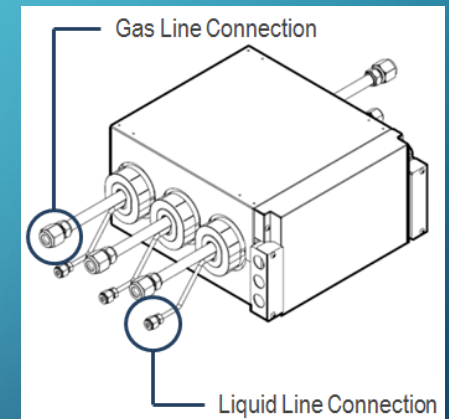
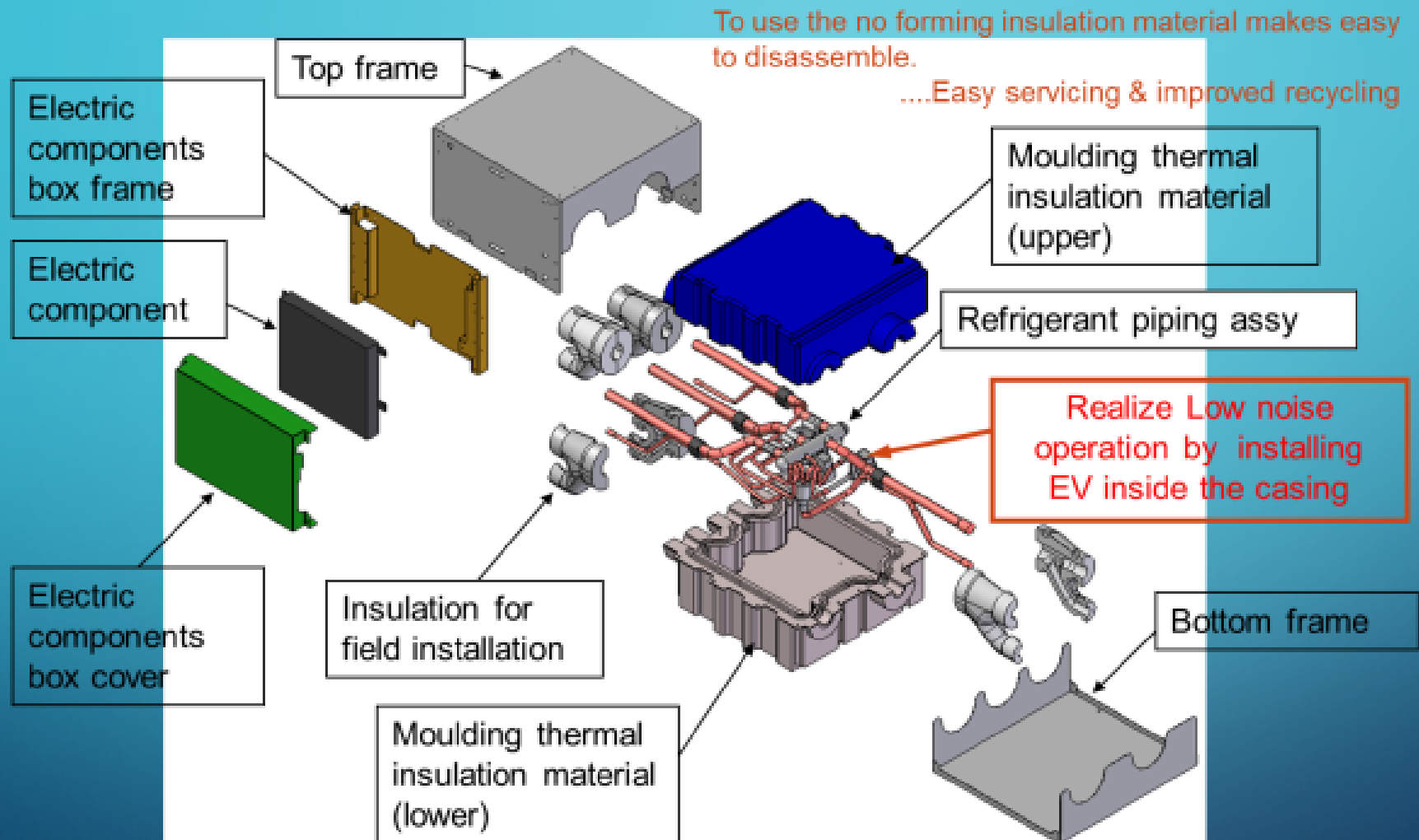


8"



Allow at least 8" of clearance above BP unit to allow for service.

BP UNIT EXPLODED VIEW



BRANCH PORT CONNECTIONS

- Flare nut connections
- Choice of 2 zone or 3 zone

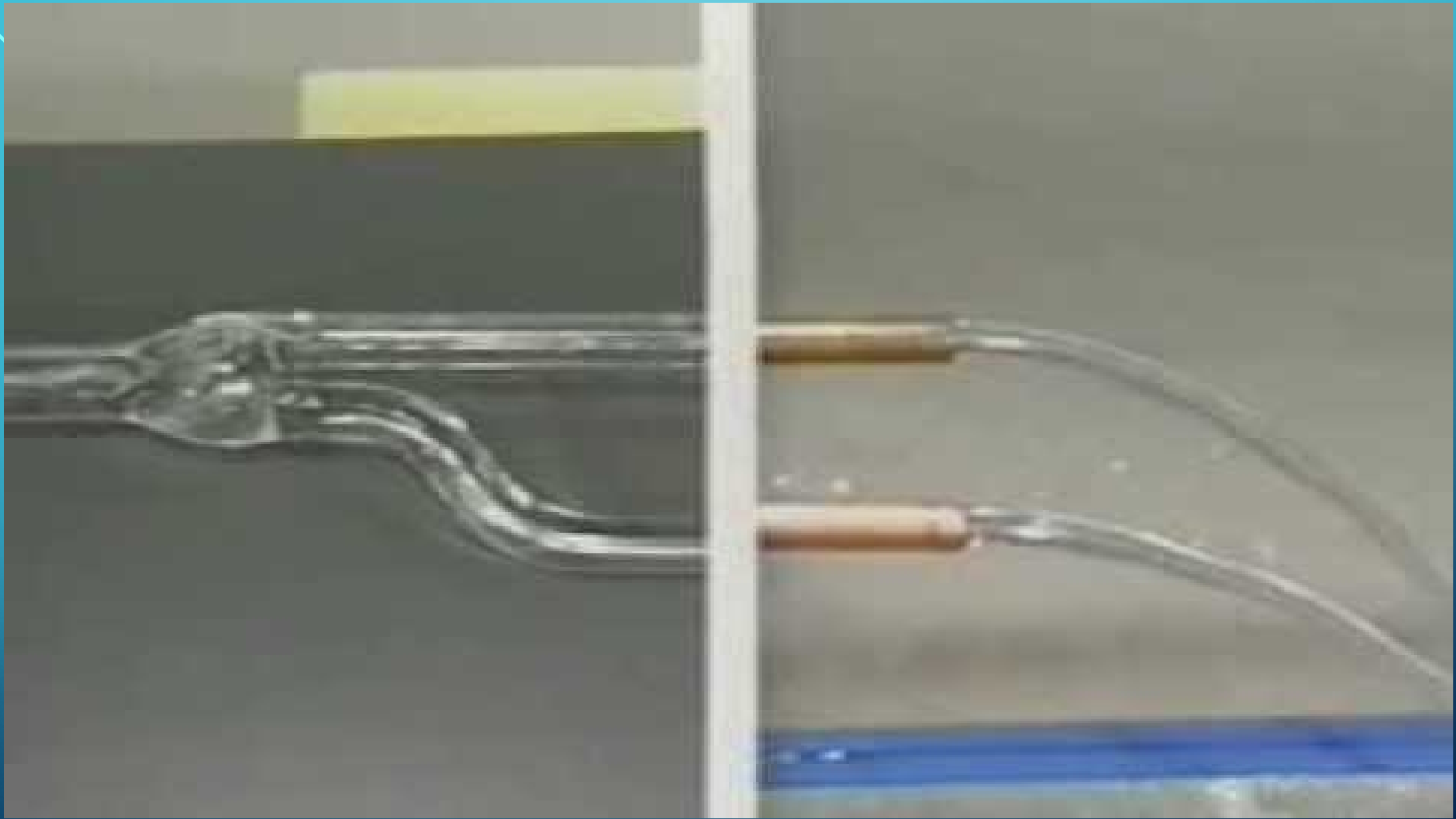
3 Port -



2 Port -

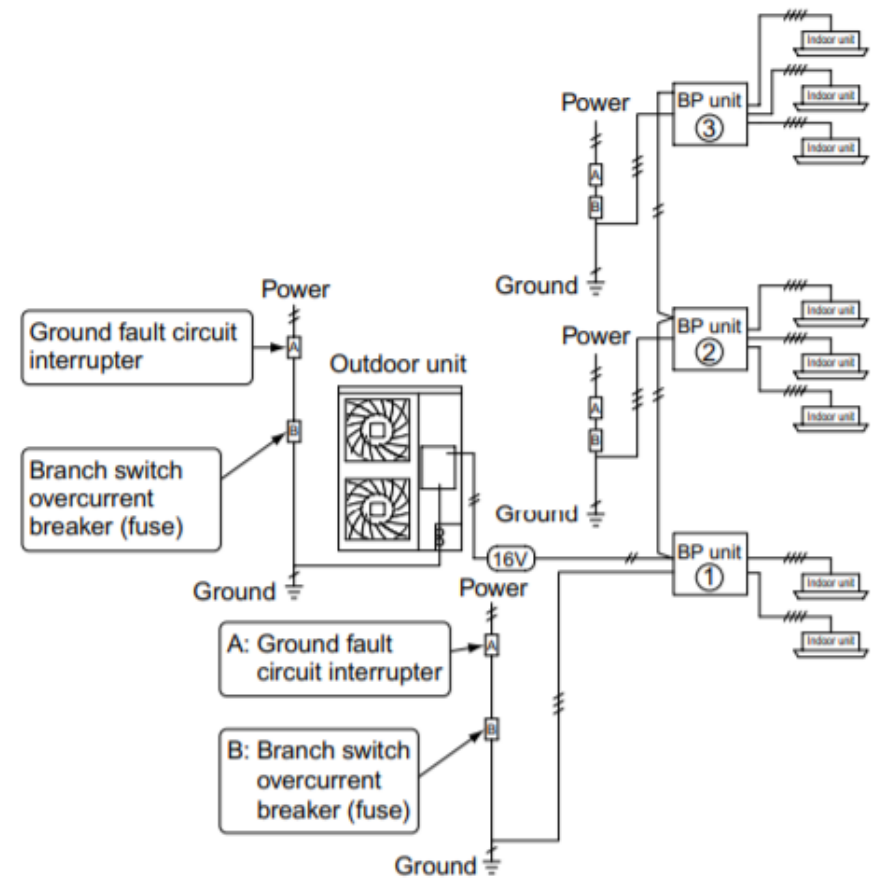


| Model Name | | | | BPMKS048A2U | BPMKS049A3U |
|------------------------------------|--------|-------------------|-------|----------------------------|--------------|
| Power Supply | | | | Single phase 60Hz 208/230V | |
| Power Consumption | | | W | 10.0 | 10.0 |
| Minimum Circuit Amps (MCA) | | | A | 15.0 | 15.0 |
| Running Current | | | A | 0.05 | 0.05 |
| Sound Pressure - (Cooling/Heating) | | | dB(A) | 32/32 | 32/32 |
| Number of Connectable Indoor Units | | | | 1 to 2 | 1 to 3 |
| Min. Connection Combination | | | | 7,000 | 7,000 |
| Max. Connection Combination | | | | 48,000 | 62,000 |
| Piping Connections (O.D.) | Liquid | Outdoor Unit Side | in. | Ø 3/8 x 1 | |
| | | Indoor Unit Side | in. | Ø 1/4 x 2 | Ø 1/4 x 3 |
| | Gas | Outdoor Unit Side | in. | Ø 5/8 x 1 | |
| | | Indoor Unit Side | in. | Ø 5/8 x 2 | Ø 5/8 x 3 |
| | Drain | | | in. | Not required |
| Reducer | | | pc. | 1 (Ø 3/8 → Ø 1/4) | |
| | | | pc. | 4 (Ø 5/8 → Ø 1/2) | |
| | | | pc. | 3 (Ø 5/8 → Ø 3/8) | |
| Dimensions (H x W x D) | | | in. | 7-1/16 x 11-9/16 x 13-3/4 | |
| Net Weight | | | lbs. | 18.0 | 20.0 |

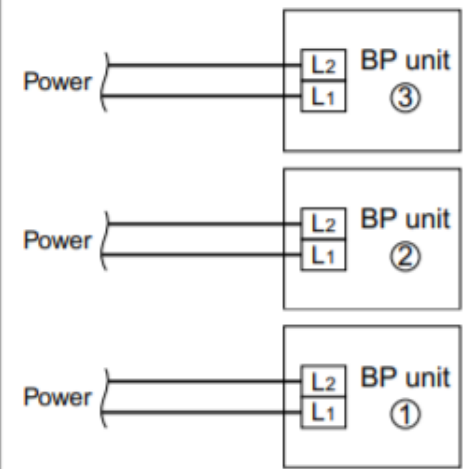


Connecting the Wiring

Connection example of total system wiring



Wiring method for the power line.



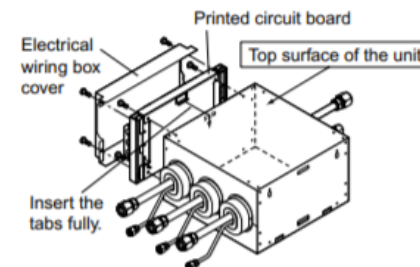
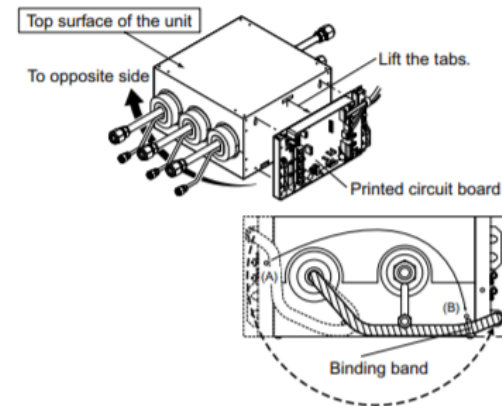
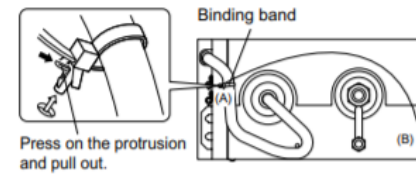
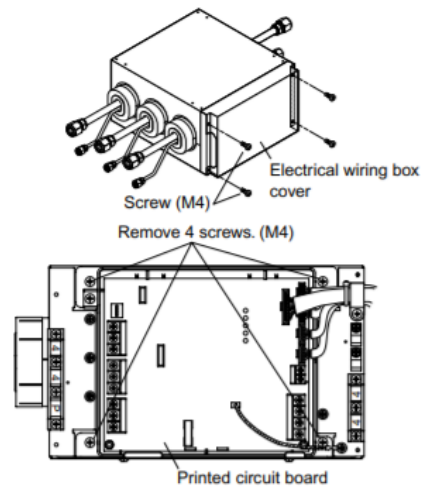
- Be sure to prepare a power supply for each BP unit.

⚠ CAUTION

- Be sure to connect the power line to L1 and L2.

Procedure for changing the installation location of the printed circuit board

- 1) Remove the screws and pull off the electrical wiring box cover.
- 2) Remove 4 screws shown in the figure, remove the printed circuit board.
- 3) Remove the binding band (A) which holds the wires.
- 4) Remove the printed circuit board, and reattach as shown in the figure.
- 5) Reattach the binding band to position (B).
- 6) Attach the printed circuit board and electrical wiring box cover to the other side and secure with the screws.

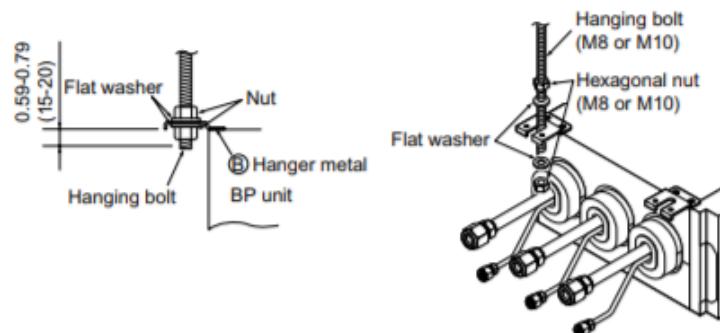
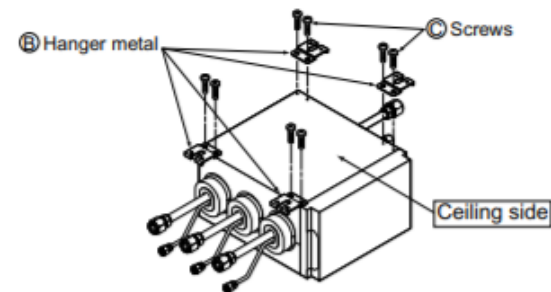


2. Ceiling-suspended type

Procedure:

- 1) Fix the furnished Ⓑ hanger metal with two Ⓒ screws.
(4 locations in total)
- 2) Using an insert-hole-in-anchor, hang the hanging bolt.
- 3) Install a hexagon nut and a flat washer (field supply) to the hanging bolt as shown in the figure in the below, and lift the unit to hang on the hanger metal.
- 4) After checking with a level that the unit is level, tighten the hexagon nut.

* The tilt of the unit should be within $\pm 5^\circ$ in front/ back and left/right.

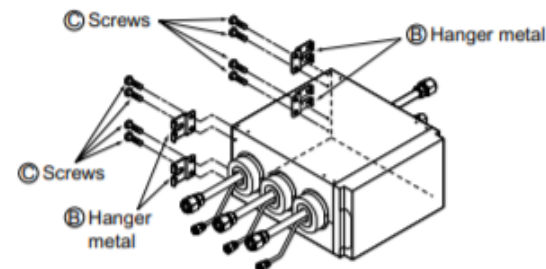


3. Wall-mounted type

Procedure:

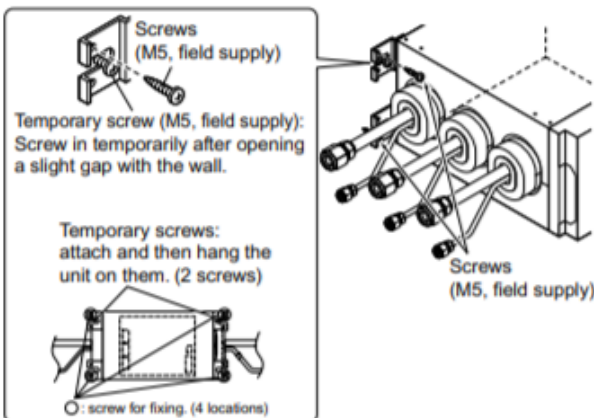
- 1) Fix the furnished Ⓑ hanger metal with two Ⓒ screws.
(4 locations in total)
- 2) Create a gap with the wall and screw in the temporary screws (M5, field supply), and hang the BP unit.
- 3) After checking with a level that the unit is level, fix the unit with screws (M5, field supply).

* The tilt of the unit should be within $\pm 5^\circ$ in front/ back and left/right.



CAUTION

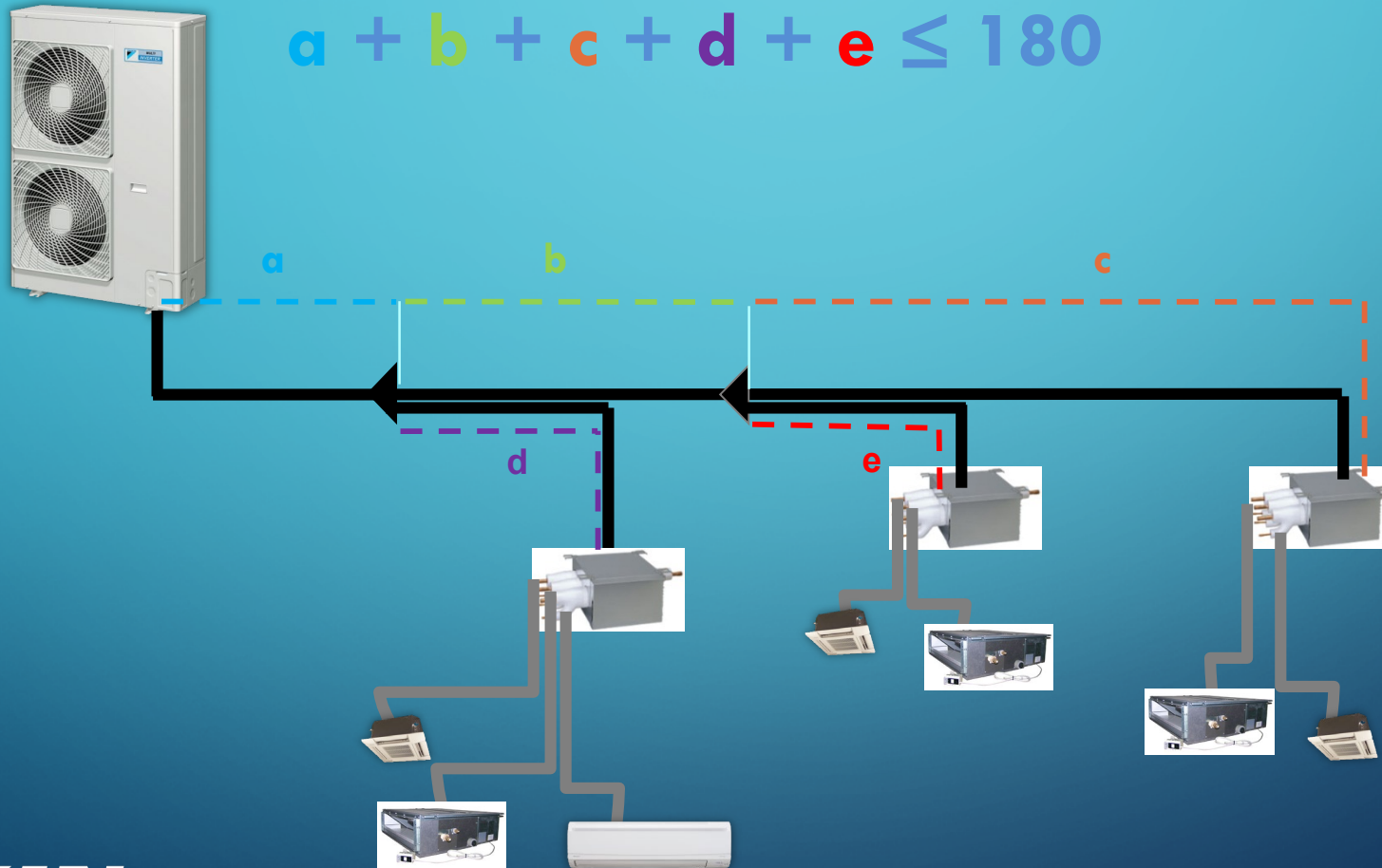
- Be sure to install the unit with the top surface up.
- **Do not install near bedrooms. The sound of refrigerant flowing through the piping may sometimes be audible.**



PIPING RULE #1

Total piping length between outdoor unit and BP units ≤ 180 ft

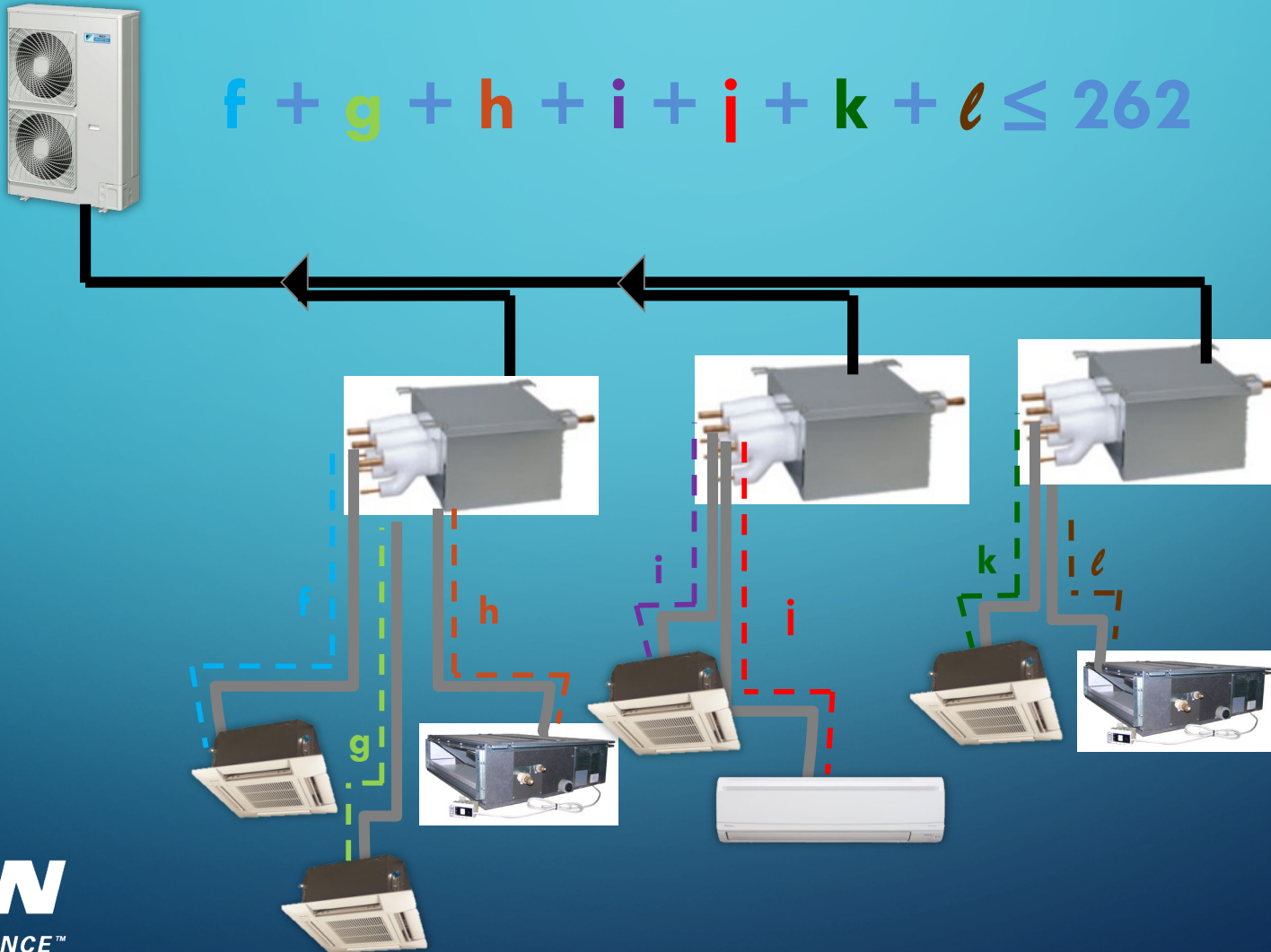
$$a + b + c + d + e \leq 180$$



PIPING RULE #2

Total piping length between BP units and indoor units ≤ 262 ft

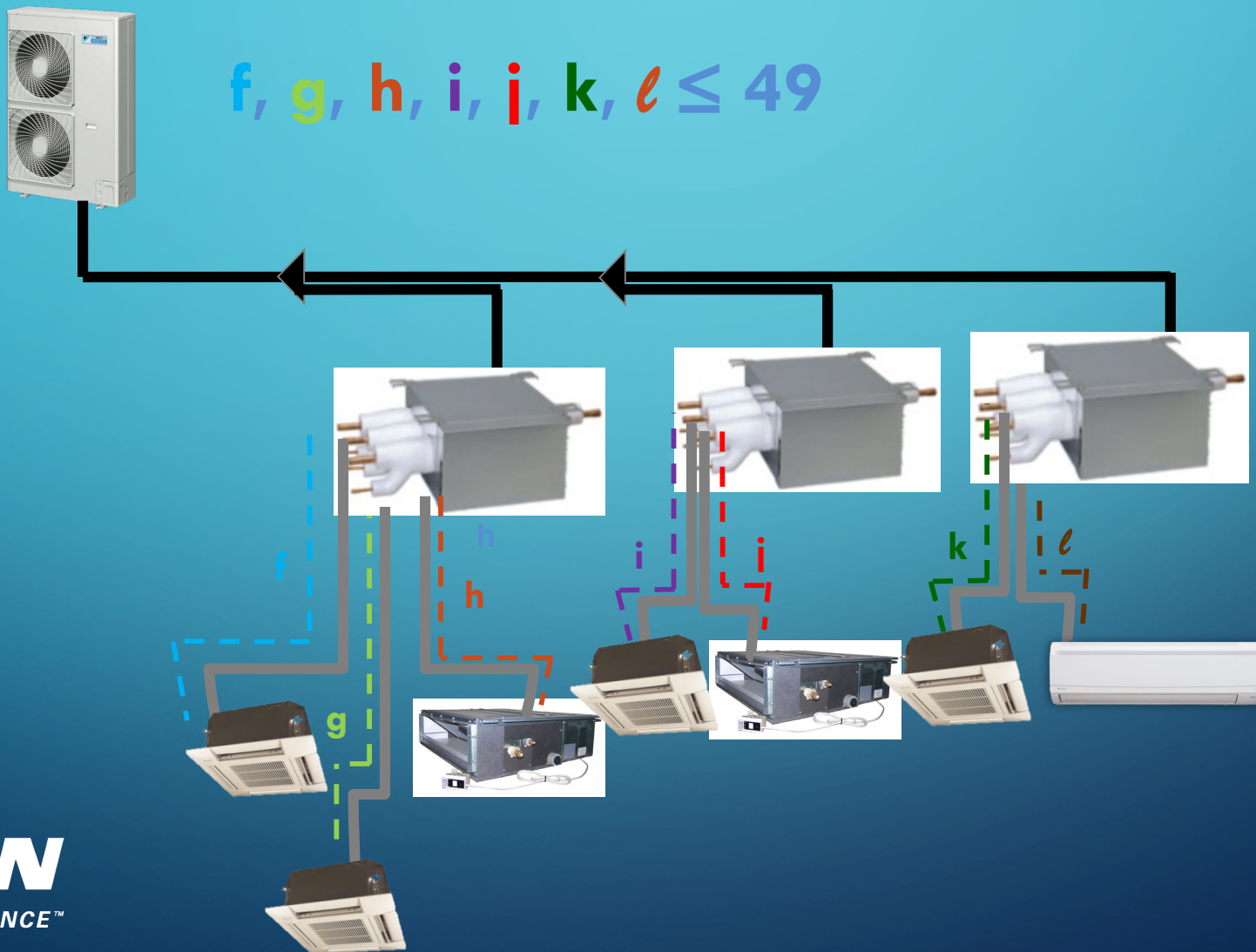
$$f + g + h + i + j + k + l \leq 262$$



PIPING RULE #3

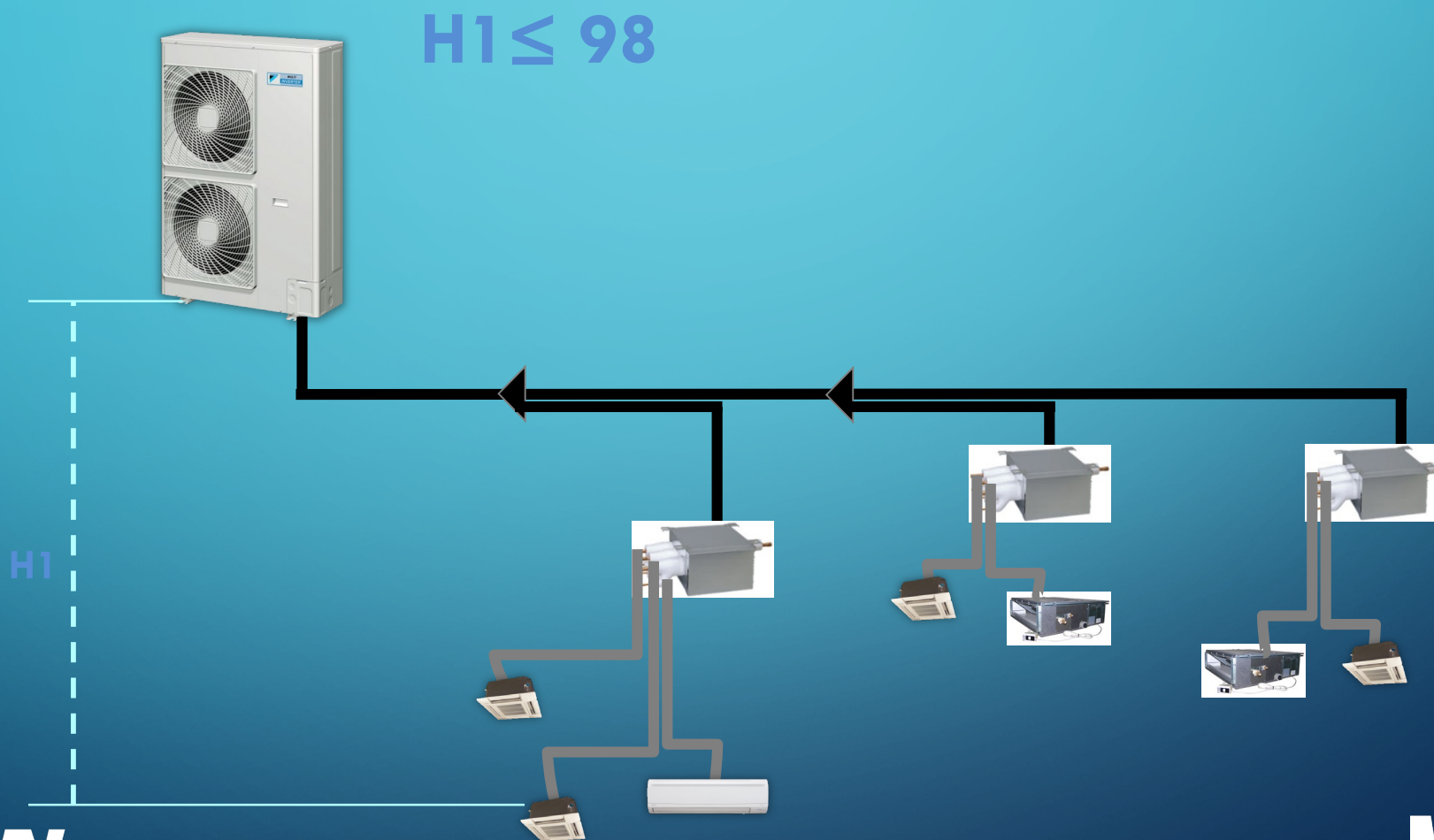
Total piping length between a BP unit and connected indoor unit ≤ 49 ft

$f, g, h, i, j, k, \ell \leq 49$



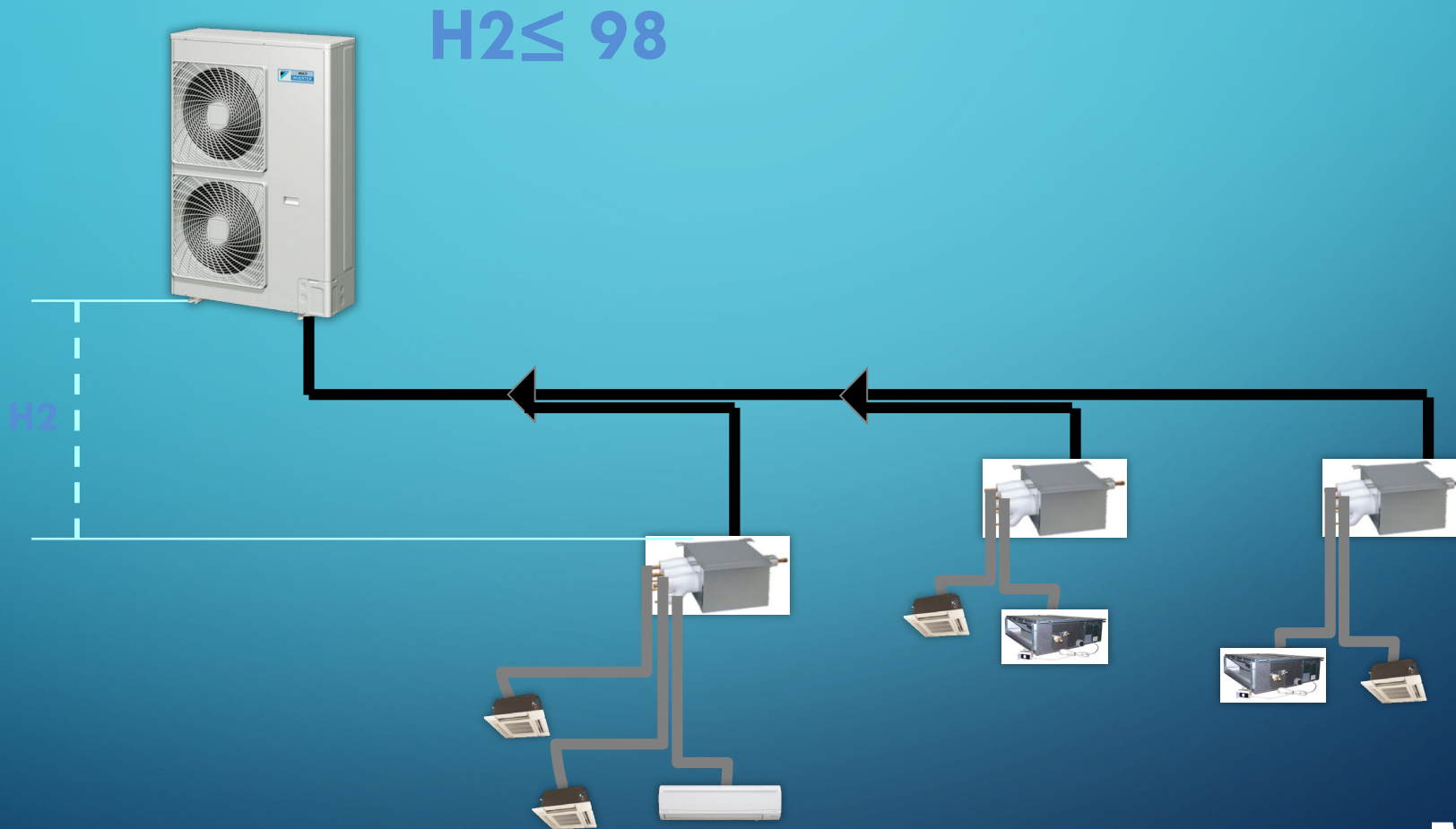
PIPING RULE #4

Total allowable height between outdoor and indoor units ≤ 98 ft



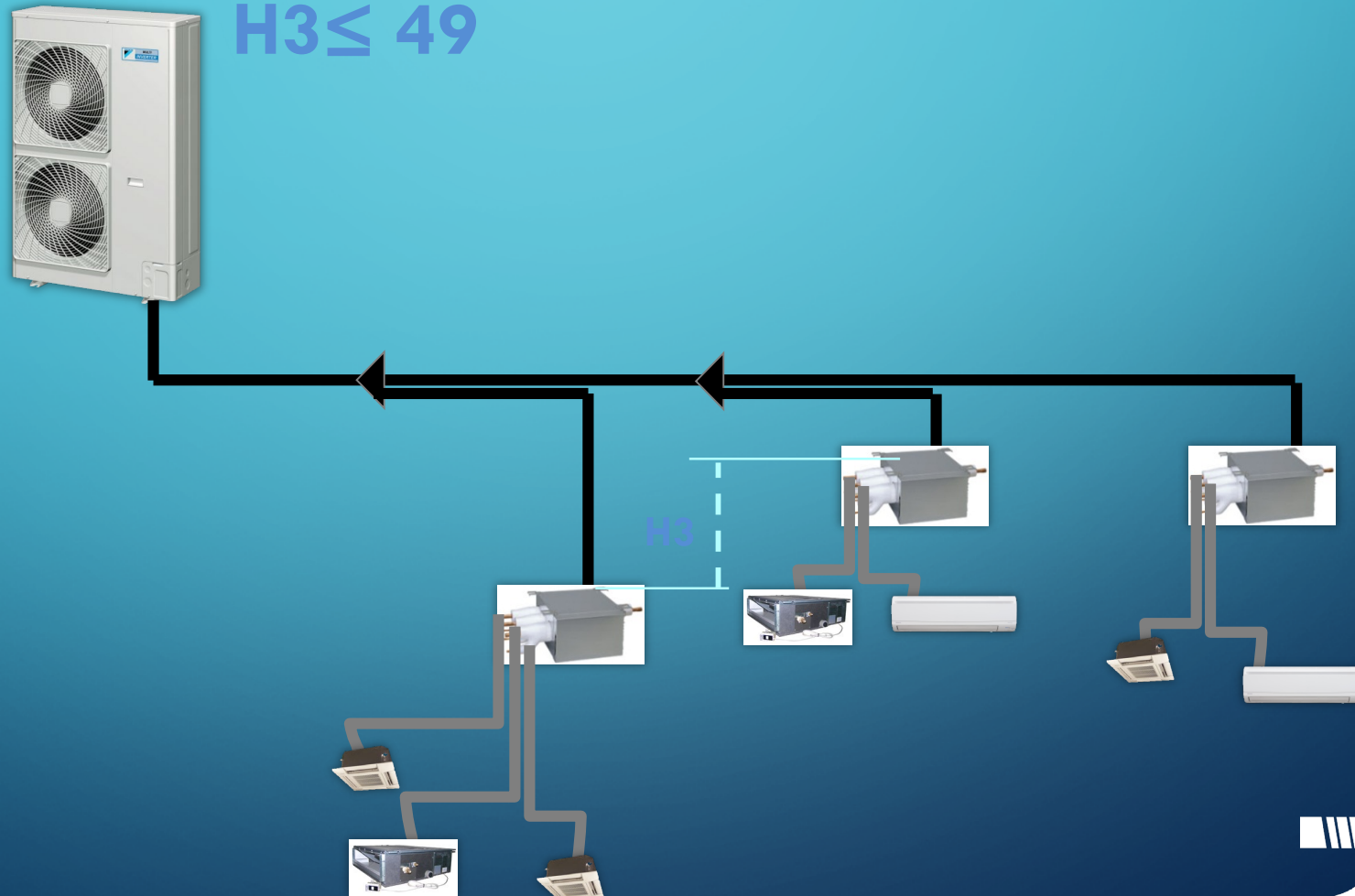
PIPING RULE #5

Total allowable height between outdoor unit and BP units ≤ 98 ft



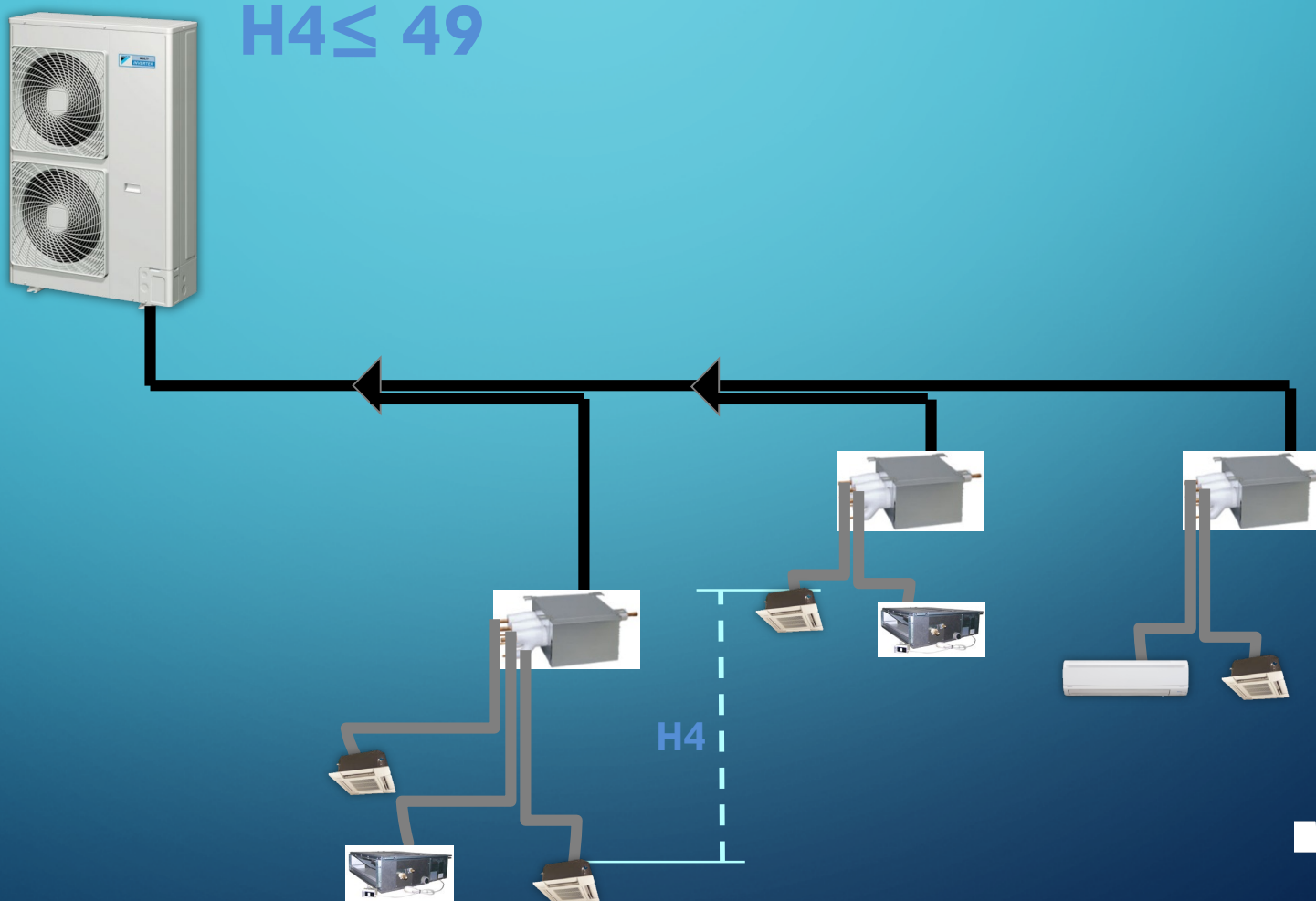
PIPING RULE #6

Total allowable height between BP units ≤ 49 ft



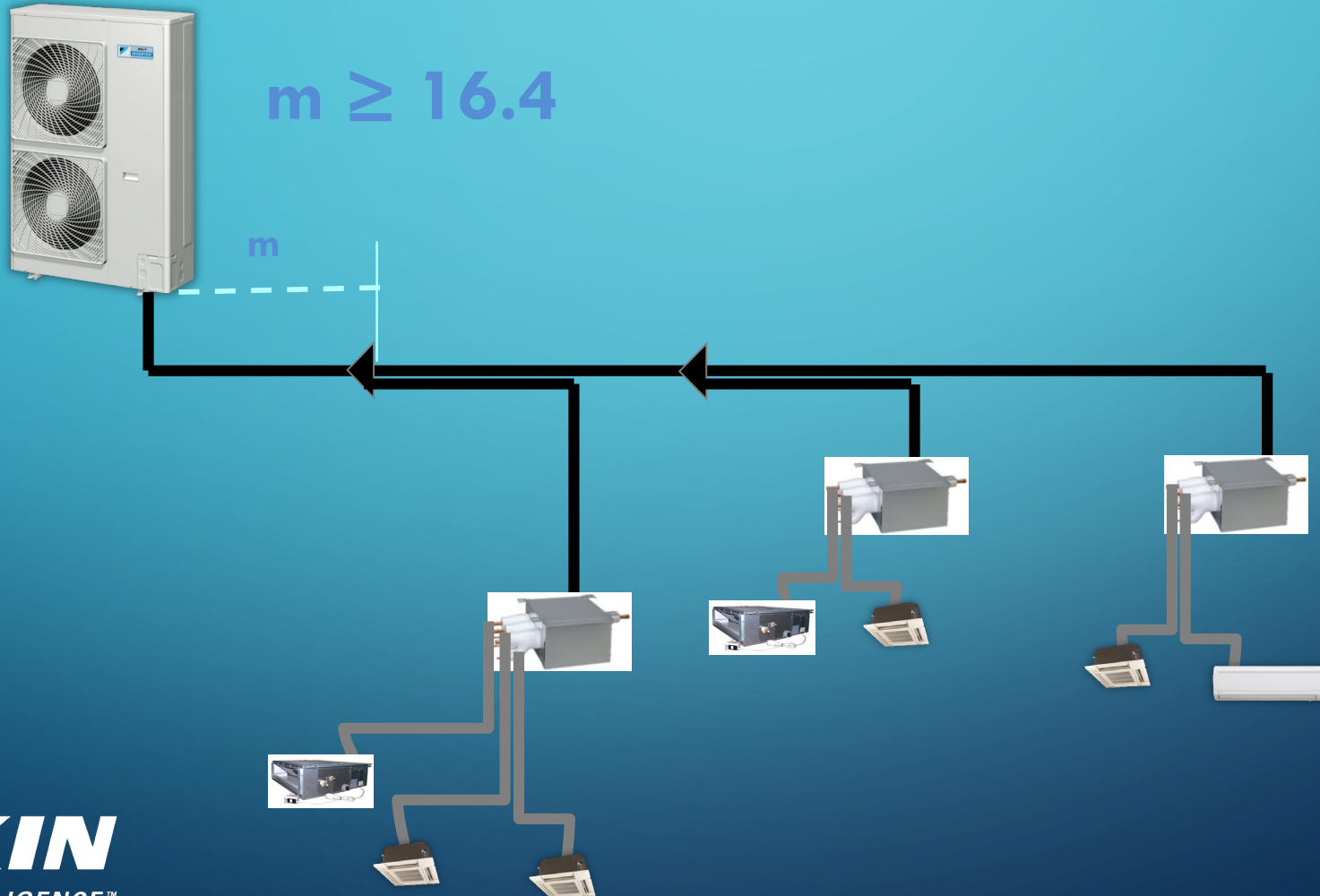
PIPING RULE #7

Total allowable height between indoor units ≤ 49 ft



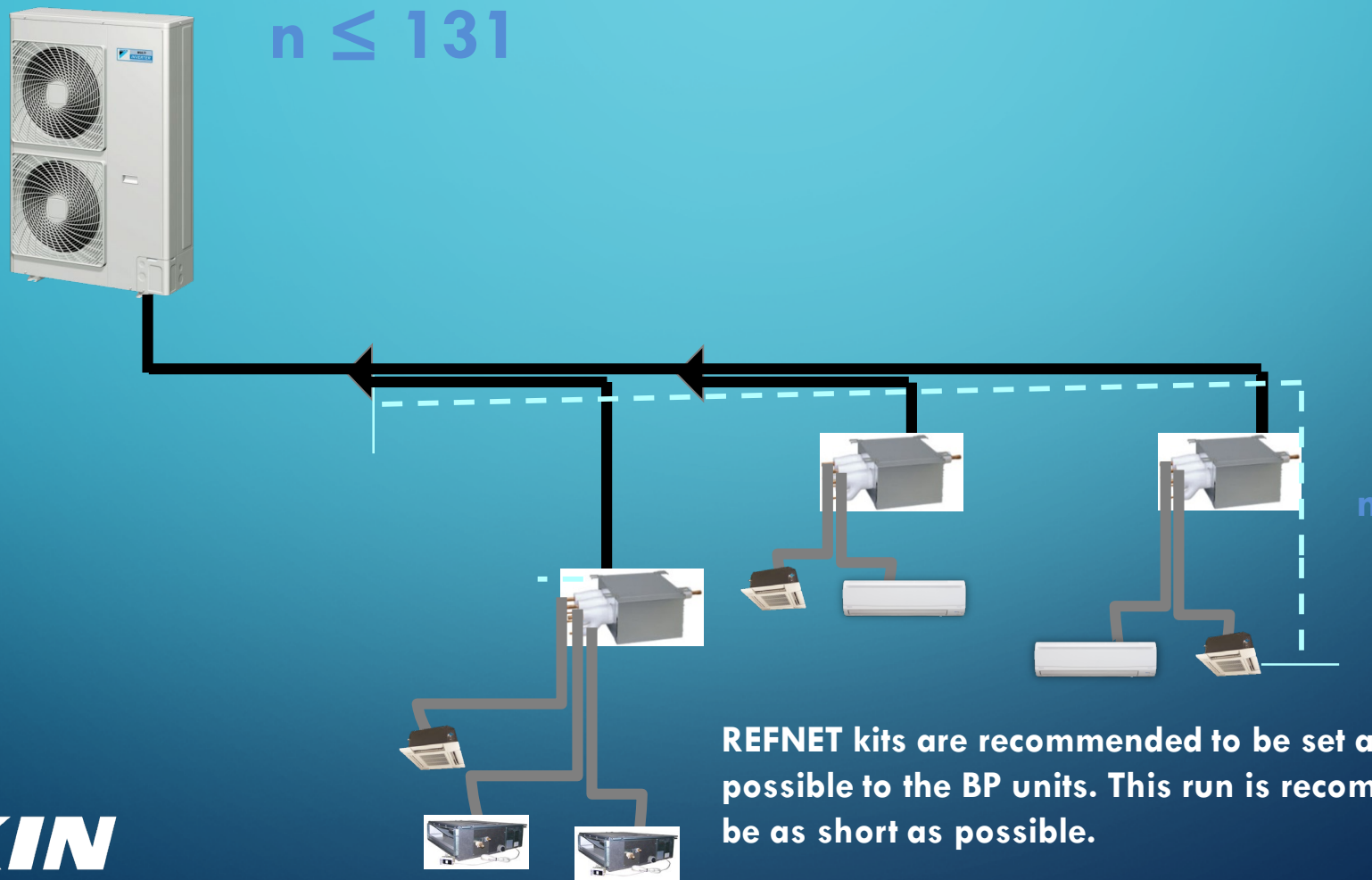
PIPING RULE #8

Minimum allowable piping length between outdoor unit and first
REFNET ≥ 16.4 ft



PIPING RULE #9

**Maximum piping length from first REFNET to furthest indoor unit
 ≤ 131 ft**



REFNET kits are recommended to be set as near as possible to the BP units. This run is recommended to be as short as possible.



RMXS48LVJU

16.4 ft
3/8"x3/4"

3 Ports

BP-1

BPMKS049A3U

Zone

Zone

Zone

Report

Print

Selection Check

| | |
|------------------------------|----------|
| Total number of Indoor Units | |
| Total IU Capacity | MBH |
| Available Cooling Capacity | MBH |
| Available Heating Capacity | MBH |
| Connection ratio | 0% |
| Total Piping Length (Liquid) | 16.4 ft |
| Standard Ref Charge : | 8.8 lbs |
| Add'l Ref Charge | 0.59 lbs |
| Total Ref Charge | lbs |

0 Ports

BP-2

N/A

0 Ports

BP-3

N/A

Show
Flow Chart

New
Project

Terms &
Conditions

Errors

Minimum Allowable Connection ratio for the system is 50%. Please check your Selection.
No Indoor Unit selected on BP-1. Please check your Selection.
Minimum Allowable Indoor Units for the system is 2. Please check your Selection.

Multi Port Priority:

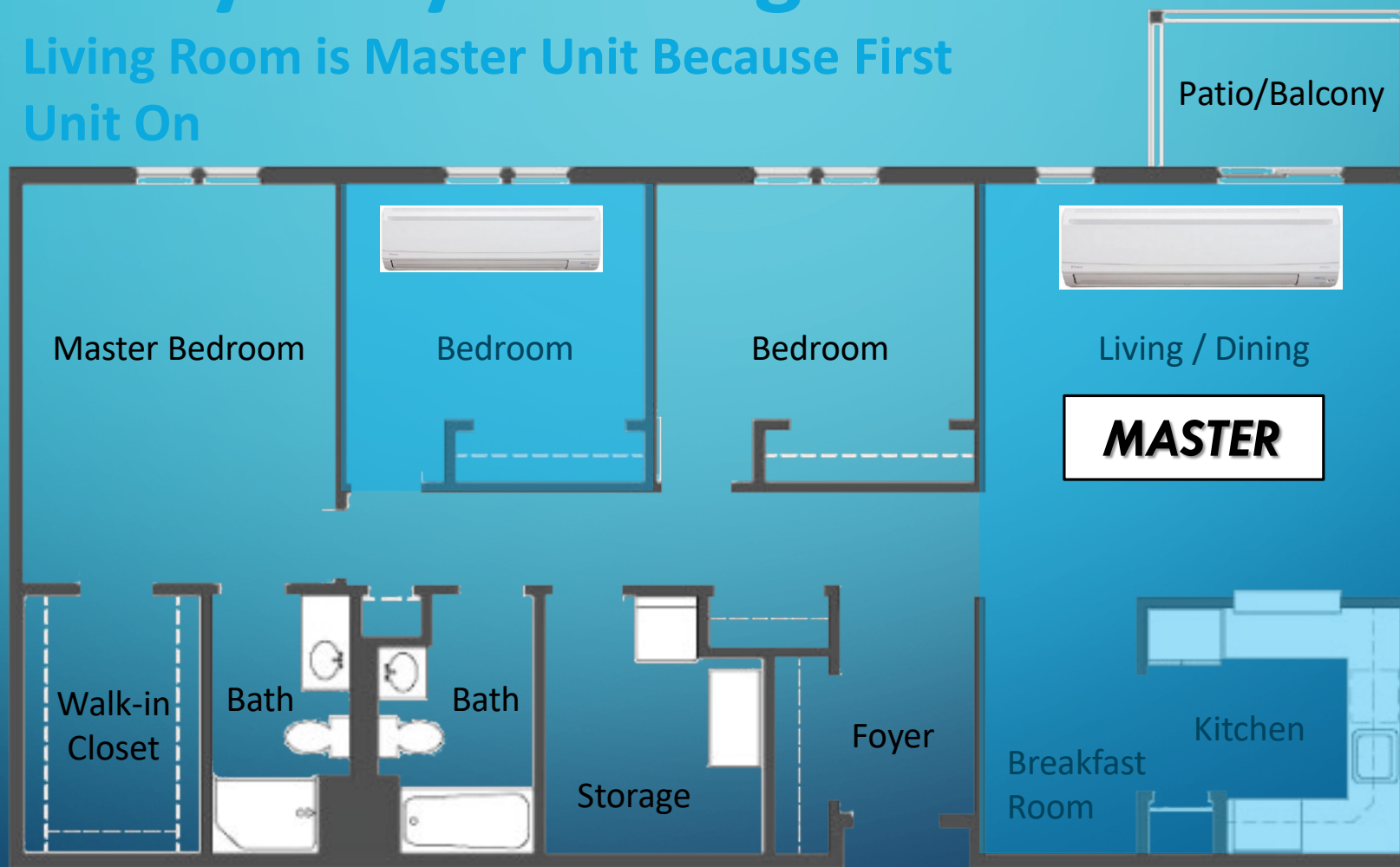
How Does it Work?

Option #1 Floating Priority (First Come First Serve)

THE MULTI PORT CONCEPT: FLOATING PRIORITY

Everybody Cooling

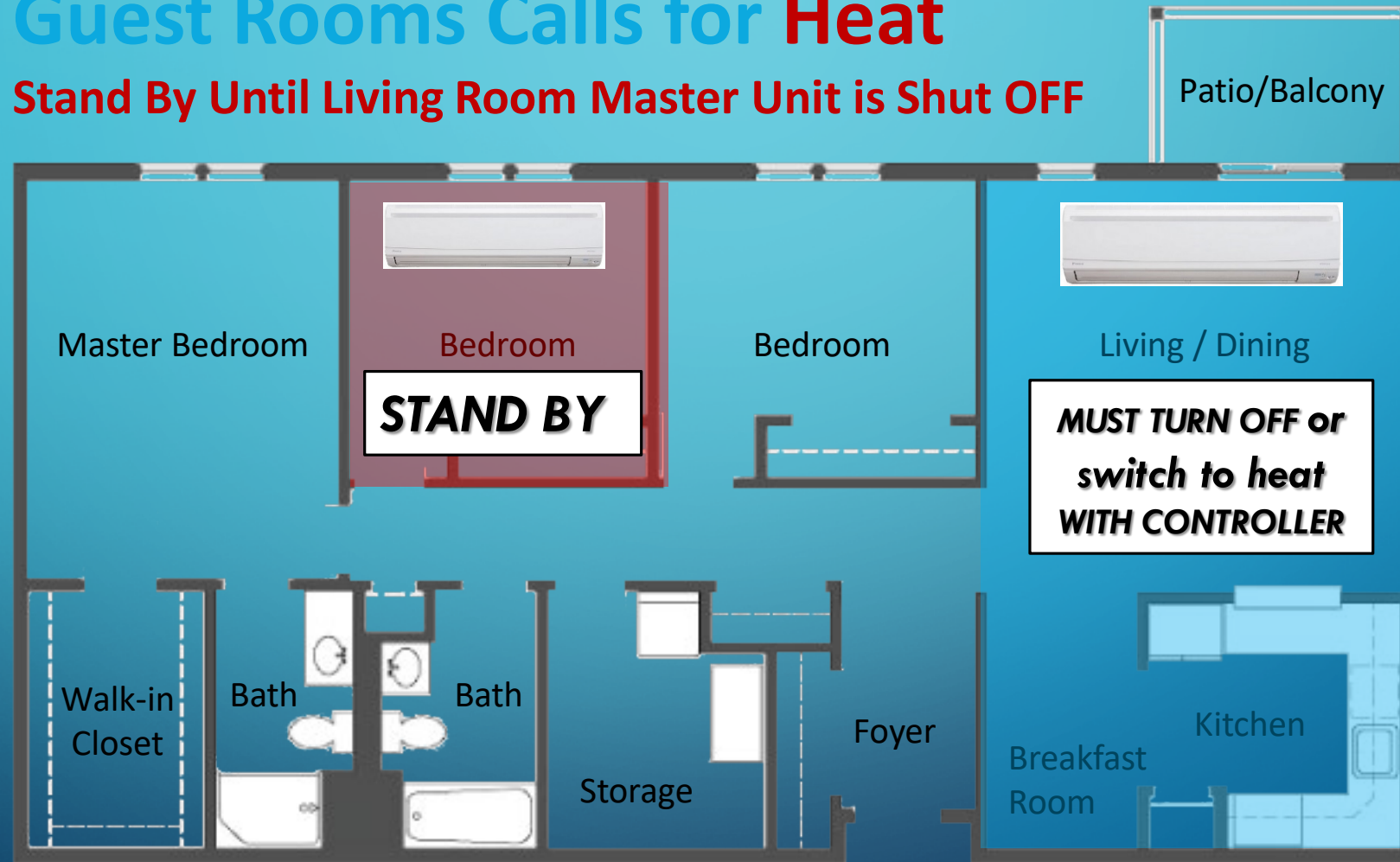
Living Room is Master Unit Because First Unit On



THE MULTI PORT CONCEPT: FLOATING PRIORITY

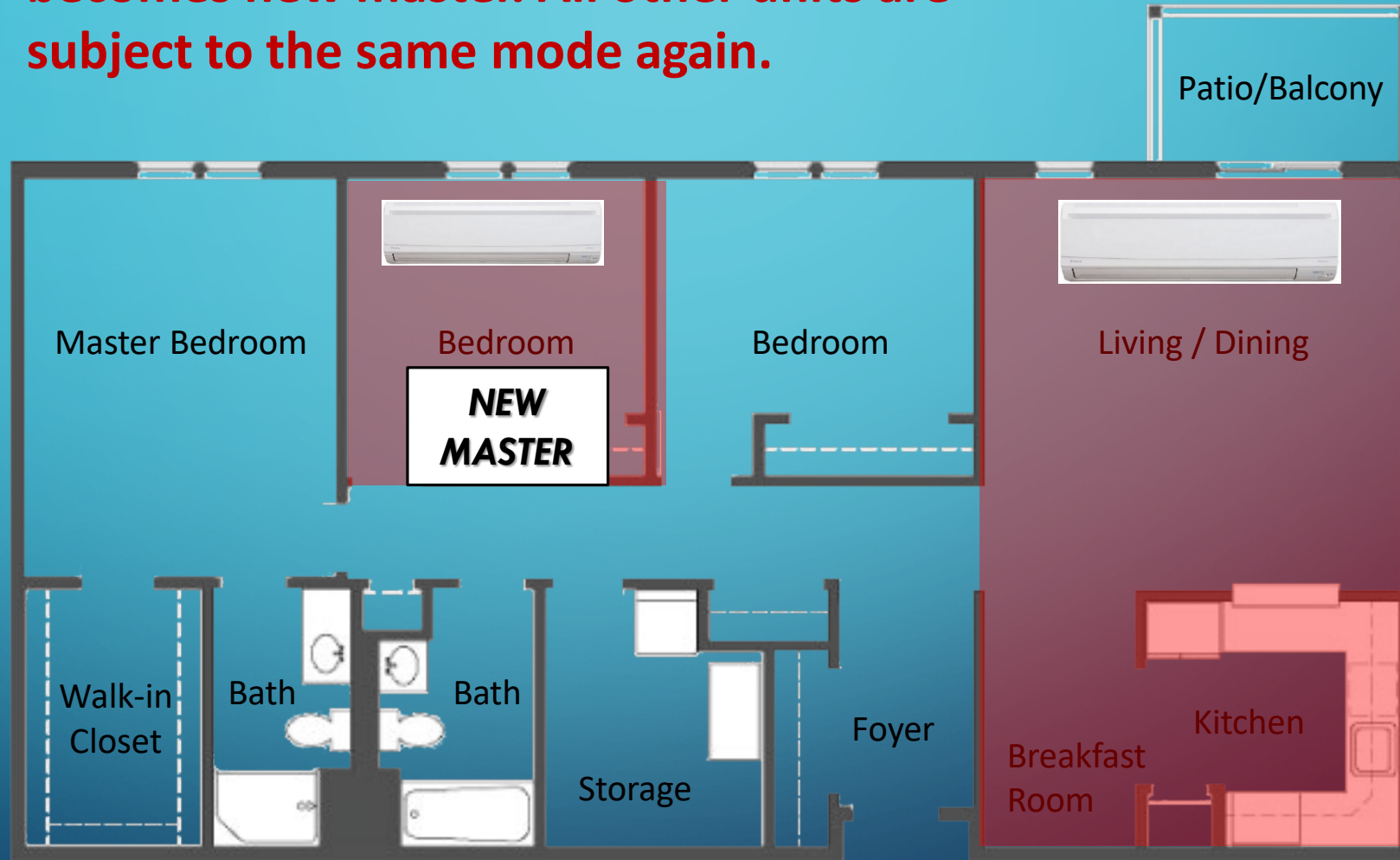
Guest Rooms Calls for **Heat**

Stand By Until Living Room Master Unit is Shut OFF



THE MULTI PORT CONCEPT: FIRST COME FIRST SERVE

Once original master is OFF, guest bedroom becomes new master. All other units are subject to the same mode again.



Multi Port Priority:

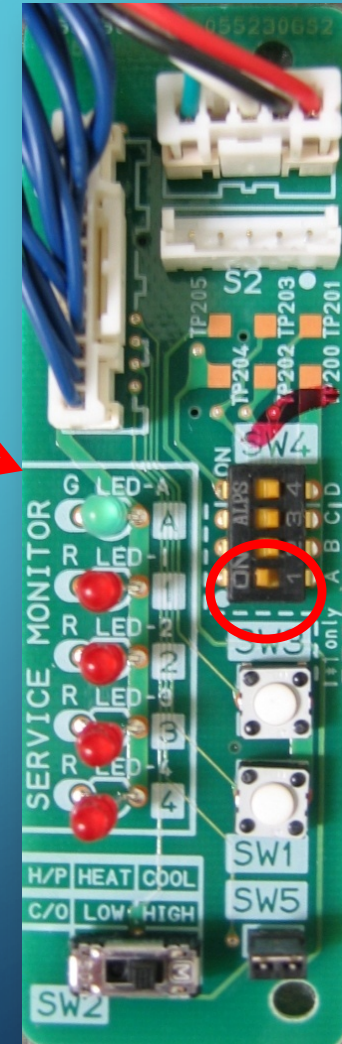
How Does it Work?

Option #2 Dedicated Priority

SETTING PRIORITY

Multi 2, 3, & 4-Port Priority Set Up

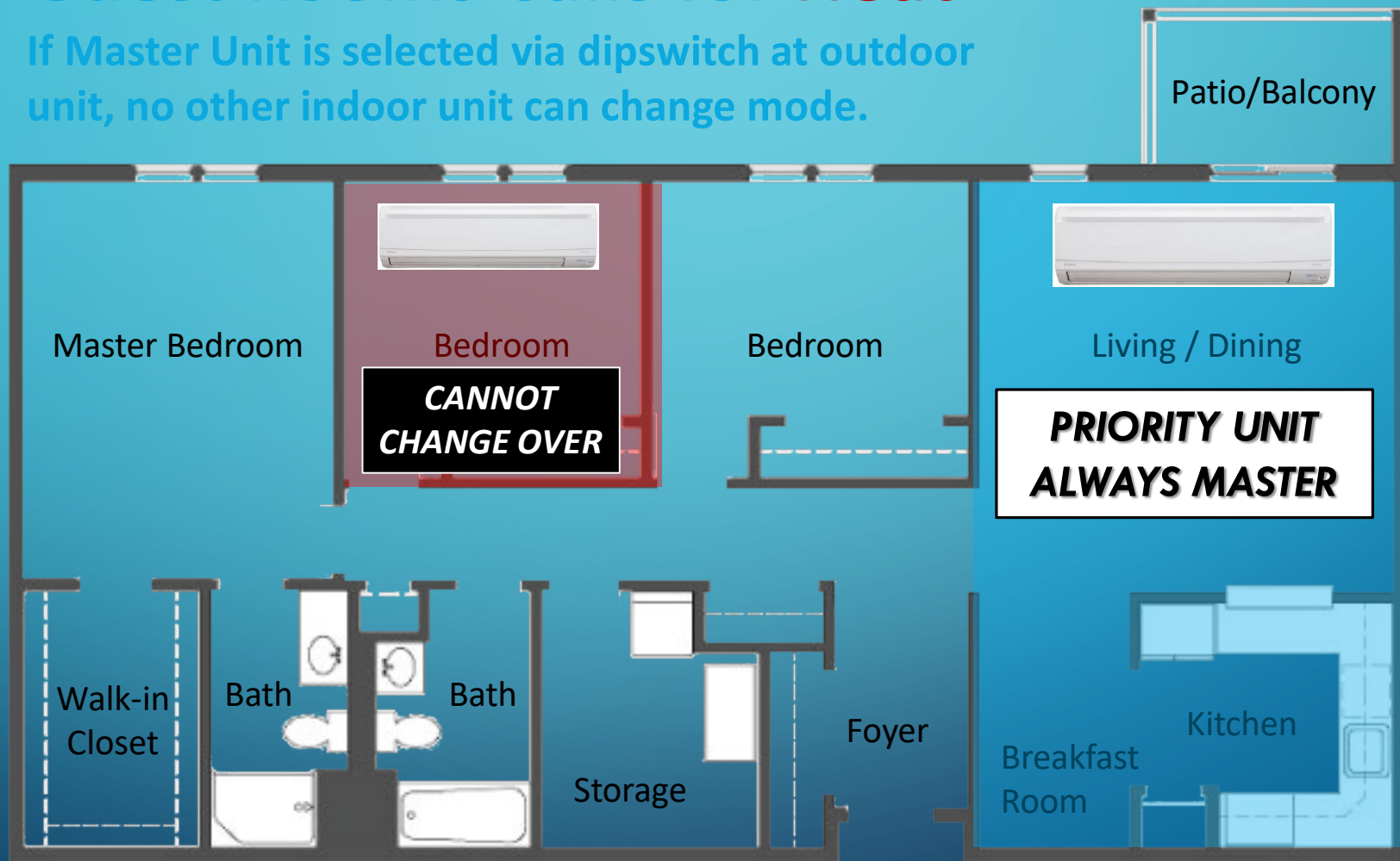
- You should choose a Priority Unit during install.
- For 2-Port Multi. Inside outdoor unit on PCB slide A or B dip switch over opposite others.
- For a 3 or 4-Port Multi. Inside outdoor unit on PCB slide A, B, C or D dip switch over opposite others.
- This must be done with power off



THE MULTI PORT CONCEPT: DEDICATED PRIORITY

Guest Rooms Calls for **Heat**

If Master Unit is selected via dipswitch at outdoor unit, no other indoor unit can change mode.



REVIEW QUESTIONS

1. Daikin unlike other manufacturers does not require nitrogen when brazing copper tubing. T or F
2. Daikin allows driers and traps to be used in their line sets. T or F
3. What is the recommended pressure for leak testing?
4. What is the recommended evacuation method?
5. It's acceptable to use 12/4 AWG between the outdoor and indoor units. Because we all know that bigger is better. T or F
6. It is acceptable to break circuit 3 when installing a condensate pump or sensor. T or F
7. Condensate drain line restrictions aren't all that important as long as I maintain a downward pitch. T or F
8. It is acceptable to install the branch box on a wall right out of the box. T or F
9. Piping rules just like the condensate restrictions aren't all that important to follow. T or F

QUESTIONS?

