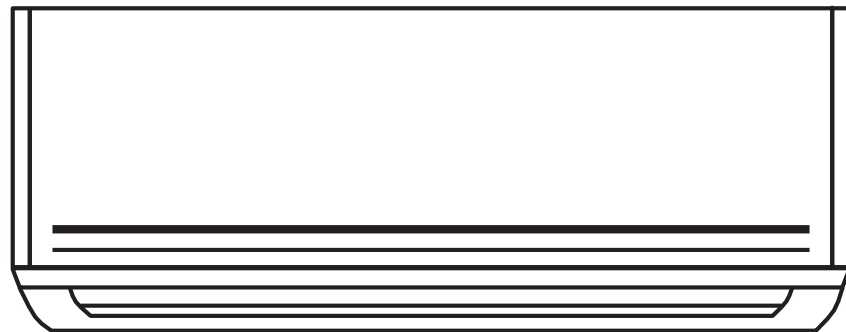




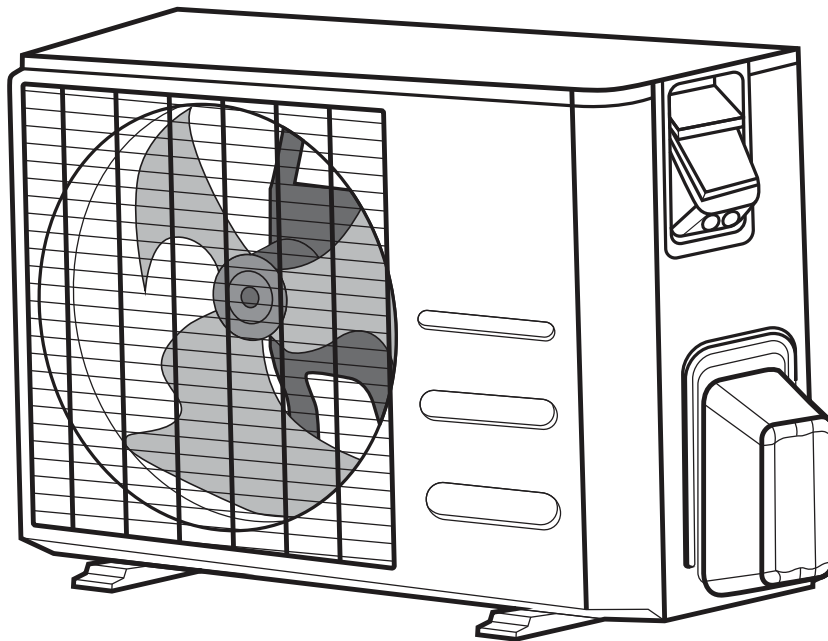
S3 DIY QUICK INSTALL

Series 3 Single Zone DIY Ductless Mini-Split for Heating & Cooling



MODELS

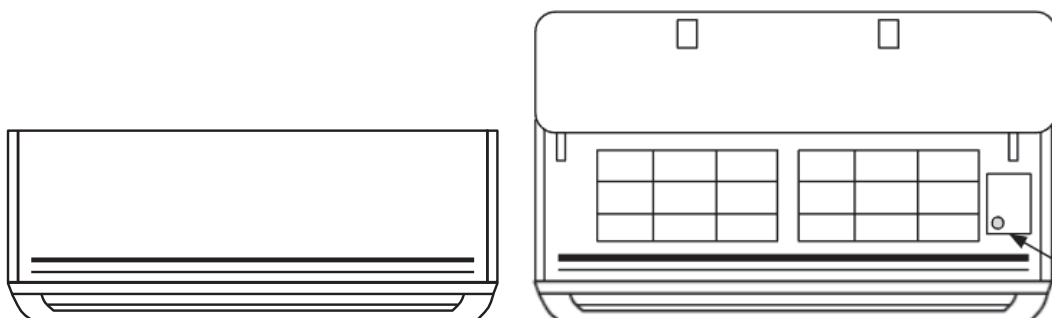
BMX9DIY20
BMY12DIY22
BMY18DIY22
BMY24DIY21
BMY36DIY18



1

Your indoor air handler has been pre-charged with R410 refrigerant. The wire connecting the indoor to outdoor unit comes attached to the indoor unit.

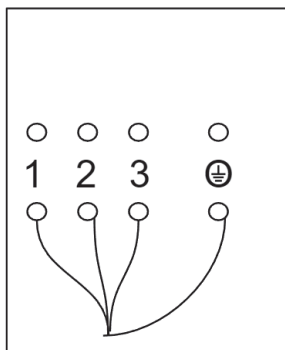
- Lift front panel of the indoor unit.



- Remove the cover on the lower right hand side to expose the wiring connections.

2

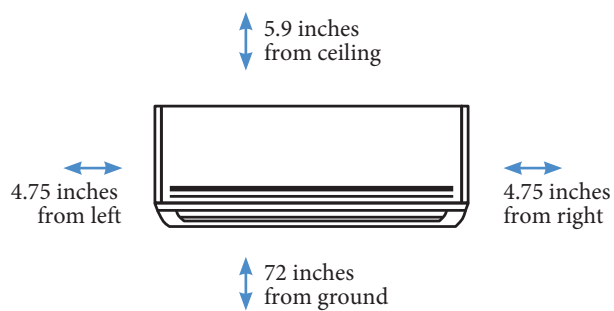
- DIY mini splits come with the 14/4 stranded wire connected to the indoor air handler.



- Take a picture or write down what color wire is connected to each terminal. It is critical that you match the same color wire to the same terminal at the outdoor unit.

3

Choose the place for the indoor unit on an exterior (outermost) wall.

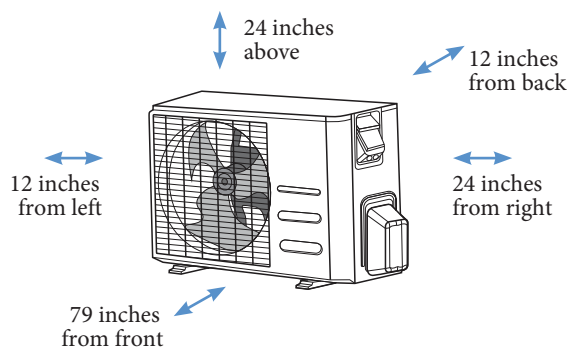


! Maintain listed clearances

If you select not to install the air handler on an exterior wall, please see full Owner & Install manual

4

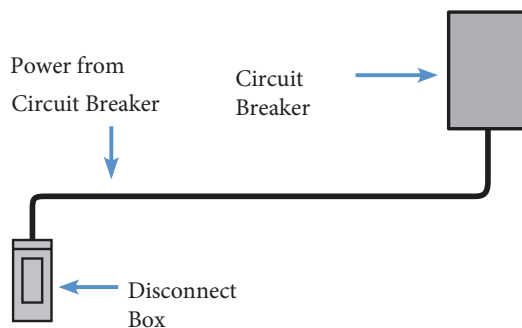
Choose the location to place the outdoor unit.



Maintain listed clearances

5

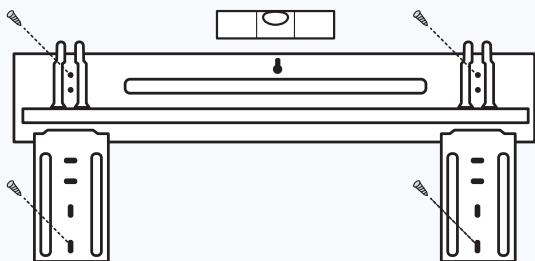
- **Prior** to running the electrical, verify the voltage and max breaker of your system.
- DIY mini splits can be either 110/120 or 208/240 voltage depending on the model.
- Max breaker size varies by model.



INDOOR UNIT

6

Remove the mounting bracket from the back of the indoor unit and mount it to the wall using the included hardware.



Bracket must be horizontally level.

7

Mark the position of the large hole for the connecting line set and wires.

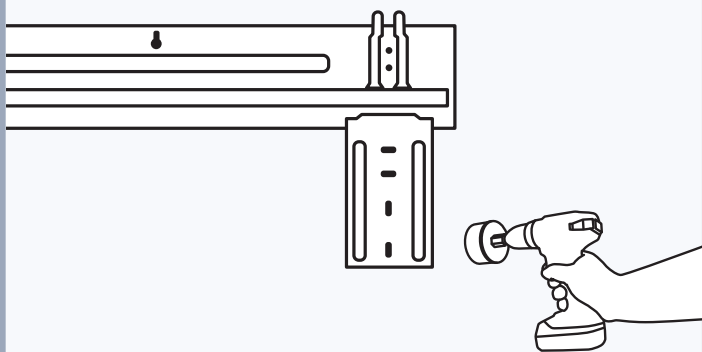


By default, the line set will exit the indoor unit on the right side (facing the unit).

If you wish to alter the configuration of the line set, please see full Owner & Install manual.

8

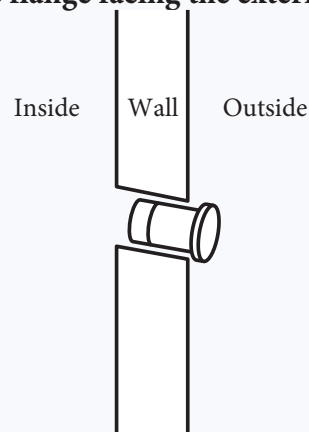
Drill hole through the wall, maintaining a slight pitch downwards to aid outside drainage.



Hole must be free of electrical wiring, plumbing, or other obstructions.

9

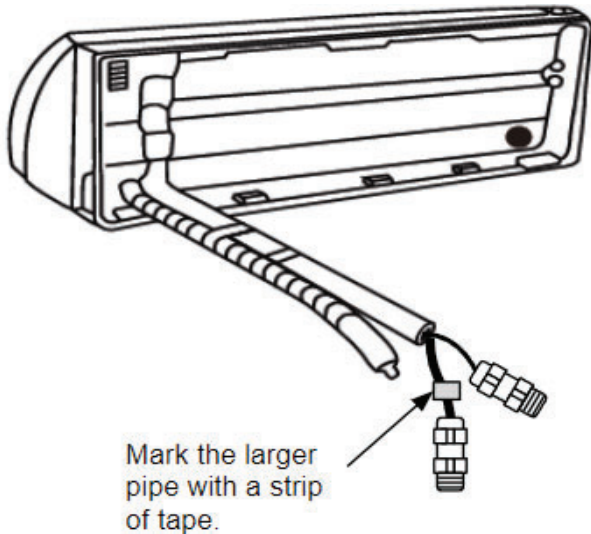
Insert wall sleeve through the wall with the flange facing the exterior.



If you can't maintain a downwards pitch, you must install a condensate pump.

10

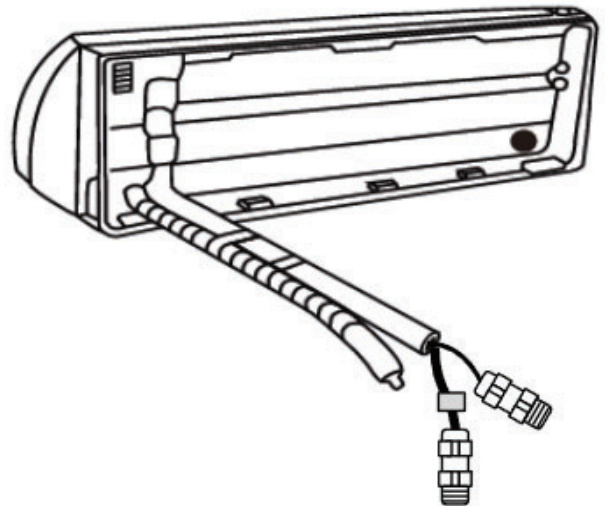
Identify the larger refrigerant pipe.



Identify which line set connection has the larger pipe. Then mark the larger pipe by wrapping it once with colored tape.

11

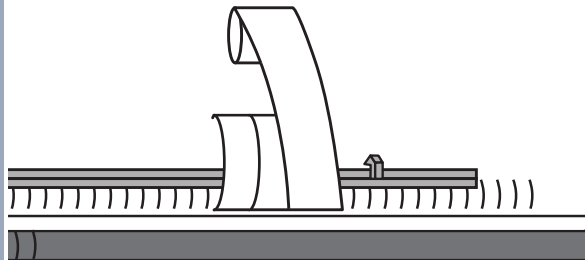
Attach the drain hose and prepare the connecting line set, drain, and wires.



For most installations, the line set will be bent 90° to exit through the wall (as shown above).

12

Bundle the line set, drain, and connection wires together, keeping drain line on bottom.



Use PVC electrical tape to secure every 3-4 feet, then install zip ties over taped sections.



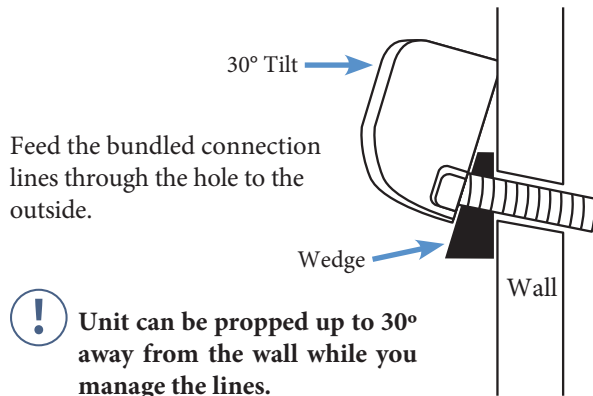
Do not overtighten tape and zip ties, as that will crimp the line set.

Blueridge DIY mini splits come with pre-charged refrigerant lines and can not be shortened or extended.

INDOOR UNIT

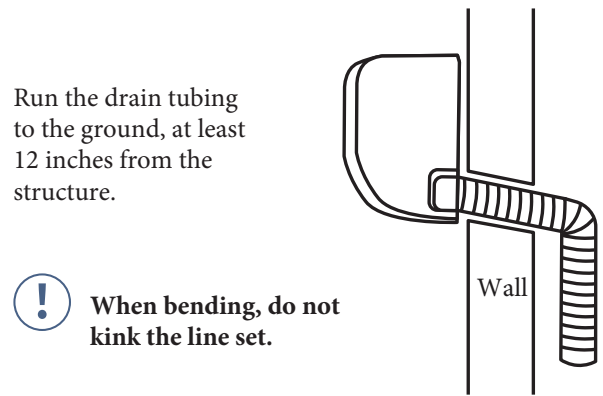
13

Hang the indoor unit on the mounting bracket.



14

Bend the line set on the exterior of the wall towards the outdoor unit.

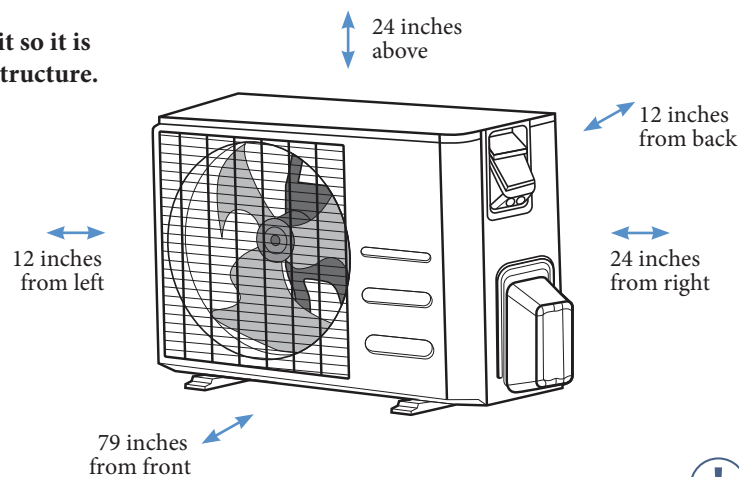


With lines larger than 3/8 inch OD, using a tubing bender is recommended.

OUTDOOR UNIT

15

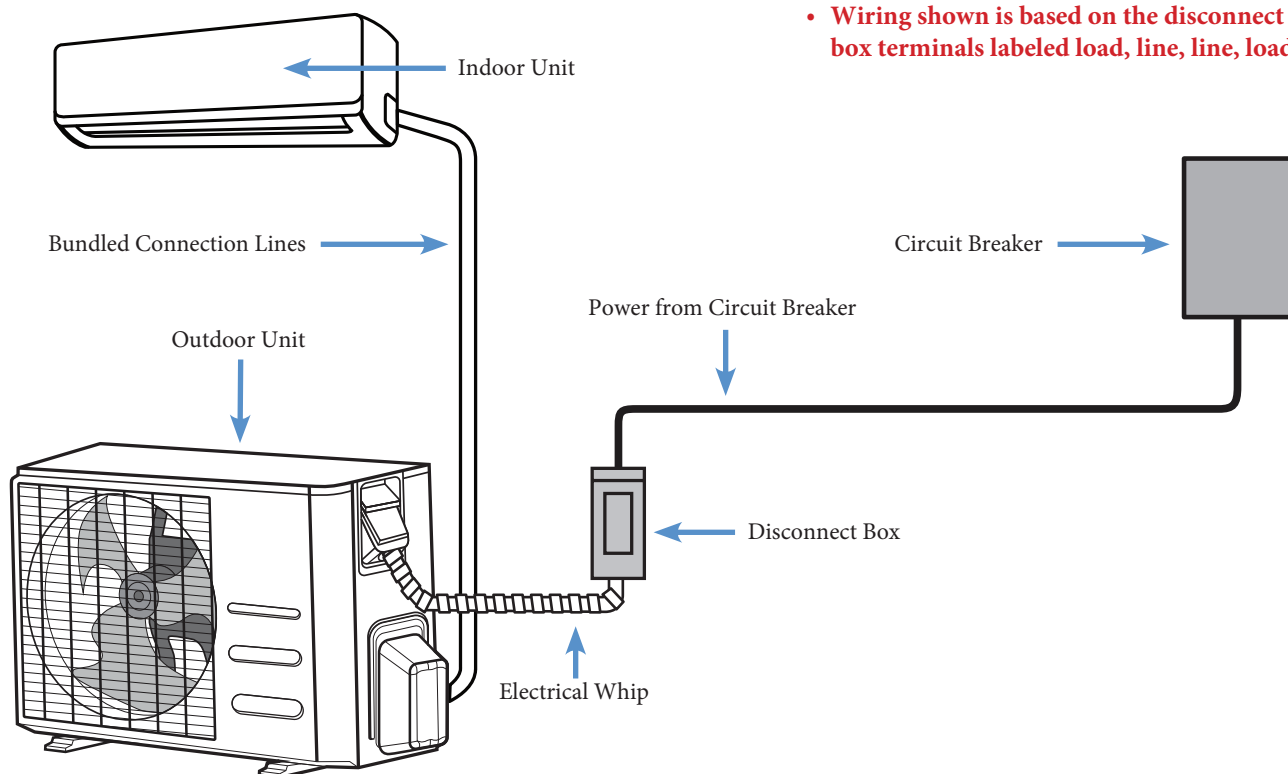
Mount on a pad, bracket, or stand.



0224 QIS101-01



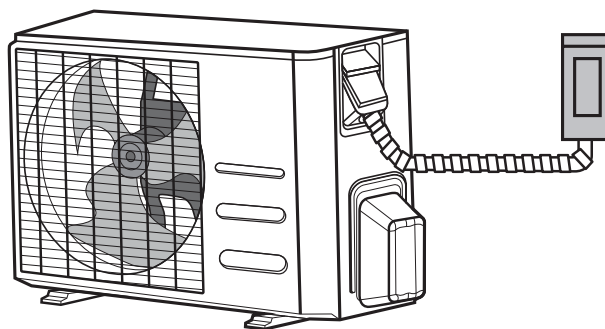
- Any high voltage electrical installation should be performed by an electrician or contractor.
- Make sure the electricity is off.
- Follow all local and national electrical codes.
- Always verify line and load lug locations on the disconnect prior to wiring.
- Wiring shown is based on the disconnect box terminals labeled load, line, line, load.



15

Using correct size breaker and wire, run the power to the disconnect box mounted beside the outside unit.

- Connect the indoor unit to the outdoor unit.
- Connect the outdoor unit to the disconnect box with the electrical whip.



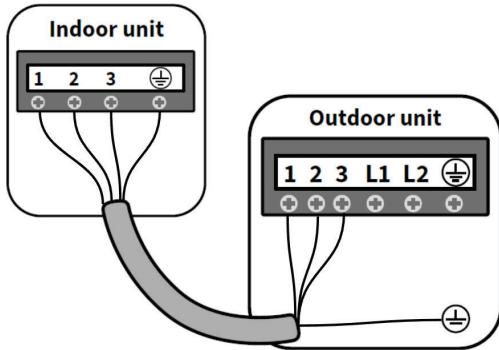
See next page for wiring diagrams

0224 QIS101-01

FOR 208/240 VOLT SYSTEM

16

Connect indoor unit to the outdoor unit.



Verify what color wire was connected to 1, 2, 3, and ground at the indoor unit.

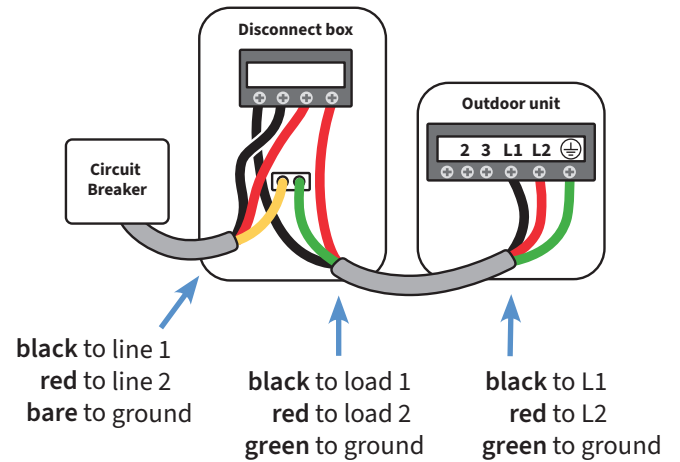
Connect the same color wire to 1, 2, 3 and ground at the outdoor unit.



Wiring shown is based on the disconnect box terminals labeled load, line, line, load.

17

Connect outdoor unit to disconnect box.



black to line 1
red to line 2
bare to ground

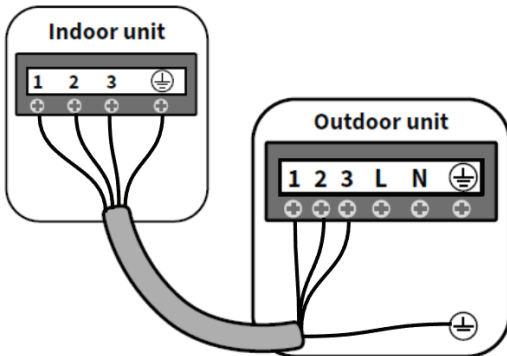
black to load 1
red to load 2
green to ground

black to L1
red to L2
green to ground

FOR 110/120 VOLT SYSTEM

18

Connect indoor unit to the outdoor unit.

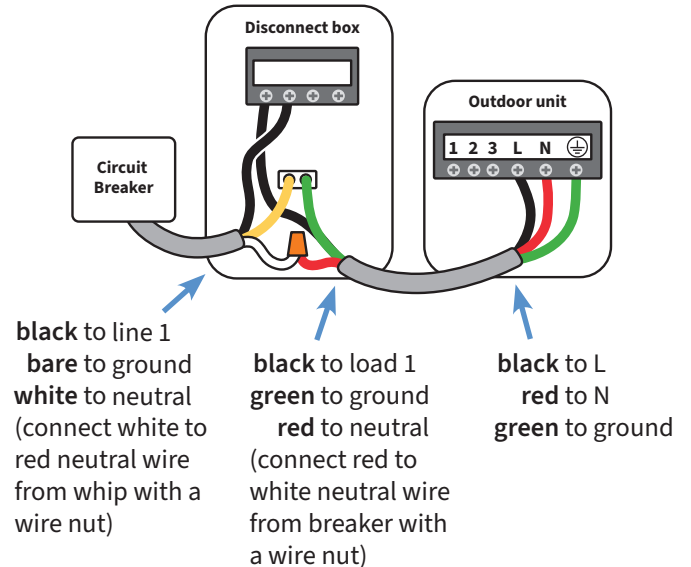


Verify what color wire was connected to 1, 2, 3, and ground at the indoor unit.

Connect the same color wire to 1, 2, 3 and ground at the outdoor unit.

19

Connect outdoor unit to disconnect box.



black to line 1
bare to ground
white to neutral
(connect white to
red neutral wire
from whip with a
wire nut)

black to load 1
green to ground
red to neutral
(connect red to
white neutral wire
from breaker with
a wire nut)

black to L
red to N
green to ground

0224 QIS101-01

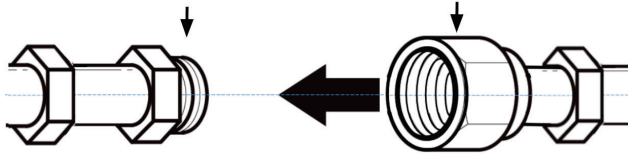
Line Set Connections Indoor Unit

20

Remove the colored caps from the line set connections on the indoor air handler and the refrigerant lines. **IGNORE THE COLOR OF THE CAPS.**

Male connection
on the indoor
unit

Female connection
on the line set



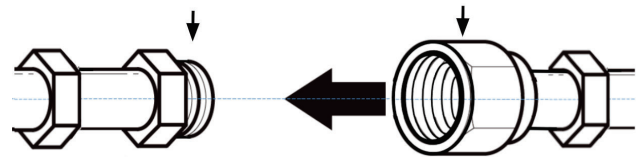
21

Check the line set. **The larger diameter line must attach to the larger pipe** (that you marked earlier) on the air handler.

The smaller diameter line must attach to the smaller pipe connected to the indoor air handler.

Male connection on
the indoor unit

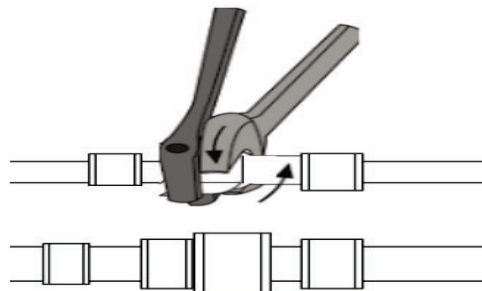
Female connection
on the line set



Warning: Refrigerant handling should be done by a trained professional.

23

Push the line set into position over the male fitting. Start tightening by hand. You will feel some initial resistance. After two-three turns use a standard wrench and a torque wrench to finish the connection. Tighten to the specifications listed in the full Install manual.



Do not over-tighten

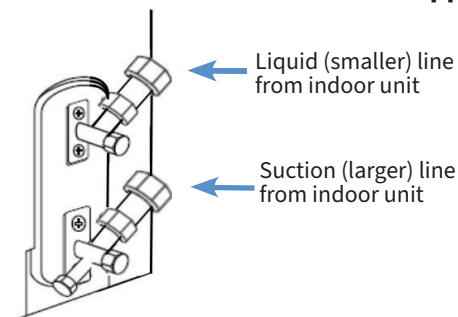


BLUERIDGE

22

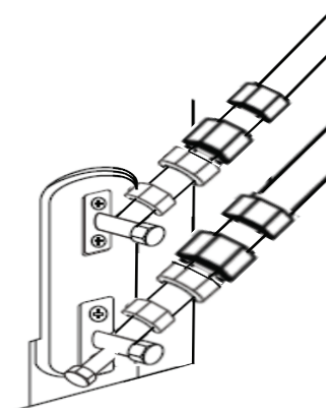
Remove the colored caps from the line set connections on the outdoor unit and the refrigerant lines. **IGNORE THE COLOR OF THE CAPS.**

Check the line set. The larger diameter line must attach to the lower connection on the outdoor. The smaller line set attaches to the upper connection.



23

Connect your line sets to the outdoor unit



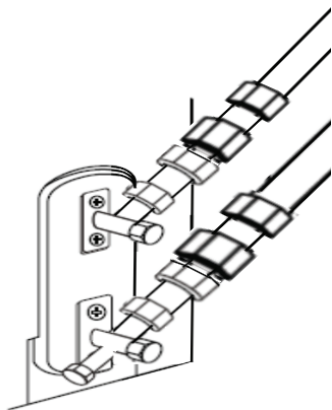
Push the line set into position over the male fitting. Start tightening by hand. You will feel some initial resistance. After two-three turns use a standard wrench and a torque wrench to finish the connection. Tighten to the specifications listed in the full install manual.



Do not over-tighten

23

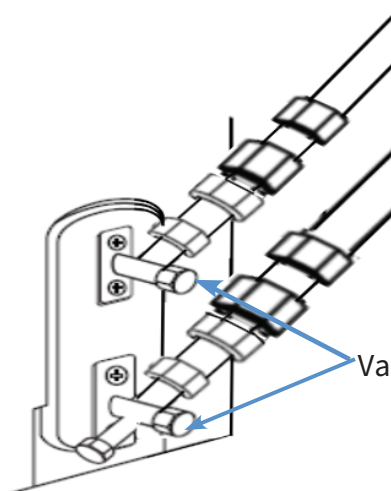
Check you connections for leaks.



- Spray all joints with a soapy water solution and look for bubbles.
- If bubbles are present tighten or back off and redo the connections.
- If no bubbles are present proceed to the final step.

25

Open horizontal facing valve caps.



- Use a 5mm allen wrench (hex key) to fully open the lower and then upper valve, releasing the refrigerant into the system.
- Replace caps over open valves.

26

Please call 1.800.865.5931 if you have any questions prior to or during the installation process of your Blueridge Mini-Split System.

Because of the Blueridge promise for continuous product innovation and improvement, some specifications and instructions may change without notification.