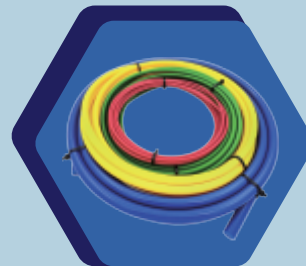




Vacuum Pump
(4.5 cfm, 1/3 hp)



6 ft Vacuum Hose



Copper Pipe Bender
Kit



Digital Vacrometer



Vacuum Pump
Oil Bottle



Valve Core Removal Tools
(5/16" & 1/4")



Torque Wrench

RENTAL KIT USER GUIDE



Save on Installation

Install it yourself with professional tools and clear instructions. No contractor needed.



Protect Your Investment

Proper tools, better vacuum, tighter seals, longer-lasting performance.



Rent & Return

No need to buy, just rent what you need and return when done.

FULL INSTALLATION DEMO

Get familiar with the process and tools by reviewing this step-by-step installation video.



- www.dellahome.com
- support@dellahome.com
- 800-863-4143
- 6:00 a.m. – 4:00 p.m. PST Monday – Friday

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STEP-BY-STEP INSTRUCTIONS

At DELLA, we're dedicated to empowering our customers with flexible solutions that cater to their needs. Whether you're a hands-on enthusiast or simply want to avoid the cost of professional installation, our DELLA Install Kit is the perfect choice for you!



COMPLETE SYSTEM SETUP

Finish mounting the indoor and outdoor units. Connect copper line set and wiring according to your system's manual.

01



BEND COPPER LINESET

Use the copper pipe bender kit with bending strips to form smooth curves on the line set. Insert the strip inside the copper pipe before bending to prevent kinks or cracks. Bend slowly and evenly to maintain proper refrigerant flow.

02



TIGHTEN FLARE NUTS

Use the adjustable torque wrench to secure all flare nuts on the lineset. Follow your mini-split manufacturer's torque specifications to avoid leaks or over-tightening.

03



PREPARE THE VACUUM PUMP

Fill with oil: Open the oil fill port on the vacuum pump and pour in the vacuum pump oil until it reaches the proper level on the sight glass. Important: Never run the pump without oil, doing so will damage it.

04



REMOVE VALVE CORES

Choose the appropriate valve core removal tool:
#MGAVCR for 5/16" systems
#MGAVCT for 1/4" systems
Remove the valve cores to improve vacuum flow and speed.

05



CONNECT THE VACUUM HOSE

Attach the 6 ft vacuum hose from the pump to the opened service port of the outdoor unit (after core removal). Ensure connections are secure and leak-free.

06



MONITOR VACUUM LEVELS

Connect the micron gauge to monitor pressure. Evacuate the system to 500 microns or lower. Turn off the pump and perform a hold test: monitor pressure for 10-15 minutes to confirm no leaks.

07

EVACUATE THE SYSTEM

Turn on the vacuum pump to begin the evacuation process. Run the pump until you reach 350-500 microns. There is no exact time required, it depends on pump and length of line set.



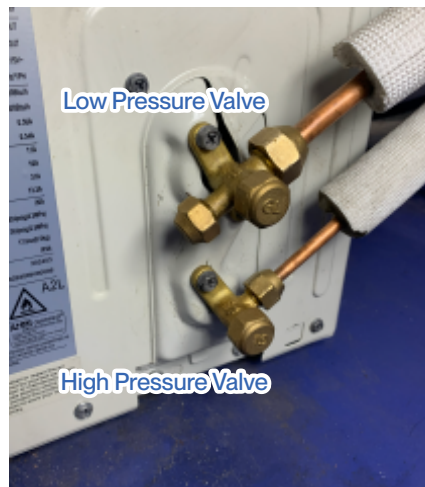
REINSERT VALVE CORE

If the vacuum holds steady, reinstall the valve core using the valve core removal tool without breaking the vacuum.

08

1

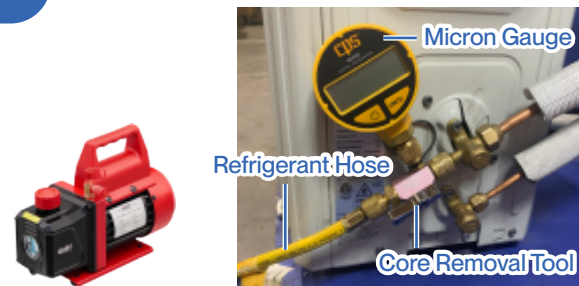
Single Zone / 2 Zones



1. Align the refrigerant pipes straight to the outdoor unit valve.
2. Tighten the nut by hand.
3. Use a torque wrench to tighten the nut according to the torque requirement.

2

Single Zone / 2 Zones

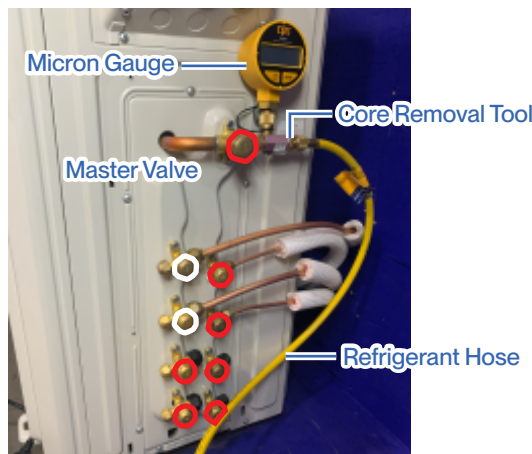


Vacuum Pump Connection

1. Remove valve core from the service port.
2. Connect the refrigerant hose one to the low-pressure valves service port and the vacuum pump.
3. Attach the micron gauge on the core removal tool.

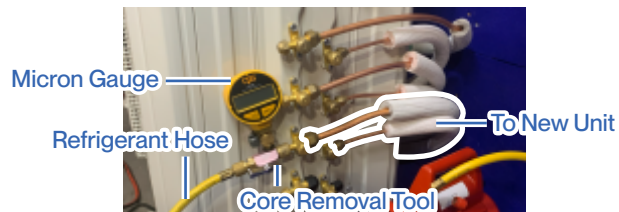
2

3 - 6 Zones Multi Zone



Vacuum Pump Connection (To Master valve)

1. Remove valve core from the master valve service port.
 2. Connect the refrigerant hose one to the master valves service port and the vacuum pump.
 3. Attach the micron gauge on the core removal tool.
 4. Open conncted low pressure valve.
- **DO NOT** open master valve, nor high pressure valves.
 - **DO NOT** open low pressure valve that do not have a connected indoor unit.



Vacuum Pump Connection (To Individual Line Set)

1. Remove valve core from the service port.
 2. Connect the refrigerant hose one to the low-pressure valves service port and the vacuum pump.
 3. Attach the micron gauge on the core removal tool.
- NOTE: When adding unit to an existing multi-zone system, there is no need to shuf off the master valve, simply evacuate the corresponding refrigerant line.

3



Evacuation

1. Turn ON the vacuum pump.
2. Run the vacuum pump until the micron gauge reads 500 microns or less (ideally close to 350). Once vacuum is achieved, continue evacuation for 5 minutes.

NOTE: As the vacuum will settle after the pump is OFF, the gauge reading will rise. It is important to allow a margin for the pressure increase.

4

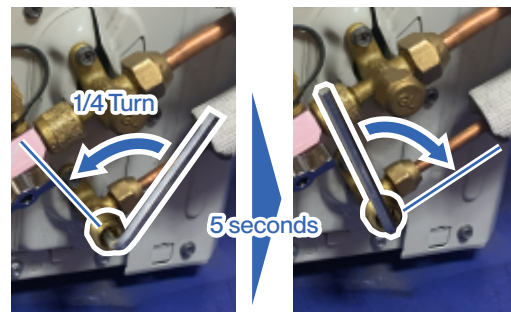


Holding the Vacuum

1. Turn OFF the vacuum pump and let the pressure settle for at least 5 minutes.
2. Ensure the gauge reading does not exceed 500 micons.

NOTE: If the reading exceeds 500 and the system could not hold the vacuum, check all the connections again and run vacuum pump again.

5



Breaking The Vacuum

1. Open the high pressure valve for 1/4 turn.
2. After 5 seconds, close the valve again.

NOTE: For multi-zone unit, perform this procedure on all connected high pressure valves.

6

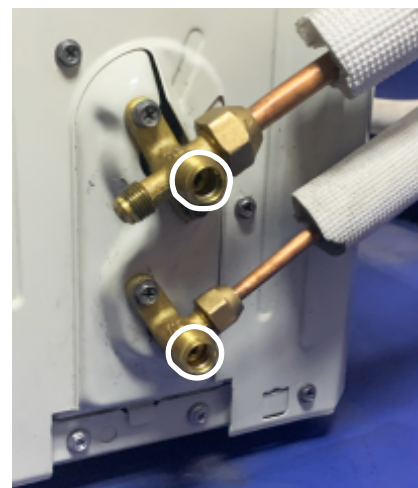


Vacuum Pump Disconnection

1. Close off the valve core removal tool ball valve.
2. Remove the refrigerant hose and micron gauge from the valve core removal tool.
3. Reinstall valve core into the high pressure valve / master valve.
4. Disconnect the valve core removal tool.

7

Single Zone / 2 Zones

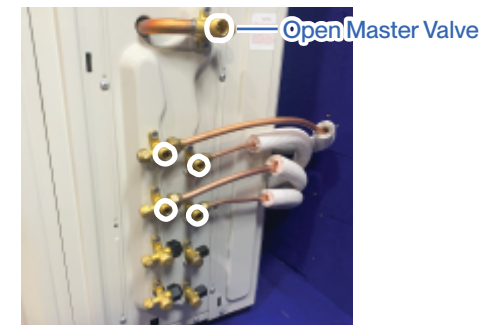


Open Pressure Valves

- Open high pressure valve.
- Then open low pressure valve.

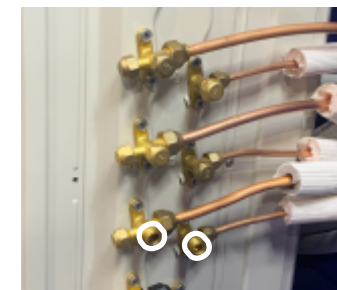
7

3 - 6 Zones Multi Zone



Open Pressure Valves

- Open all connected high pressure-valves.
- Then open all connected low-pressure valves.
- Open the master valve.



Open Pressure Valves (New Added Unit)

- Open the newly connected high pressure valve.
- Then open the newly connected low pressure valve.

8



Final Leak Test

- Check all connections with soapy water spray for any leakage.
- Reattach all covering caps to their original places.



dellahome.com/pages/registration

Don't forget to film and submit your installtion progress video using the Della Rental Kit to qualify for **lifetime warranty coverage**.