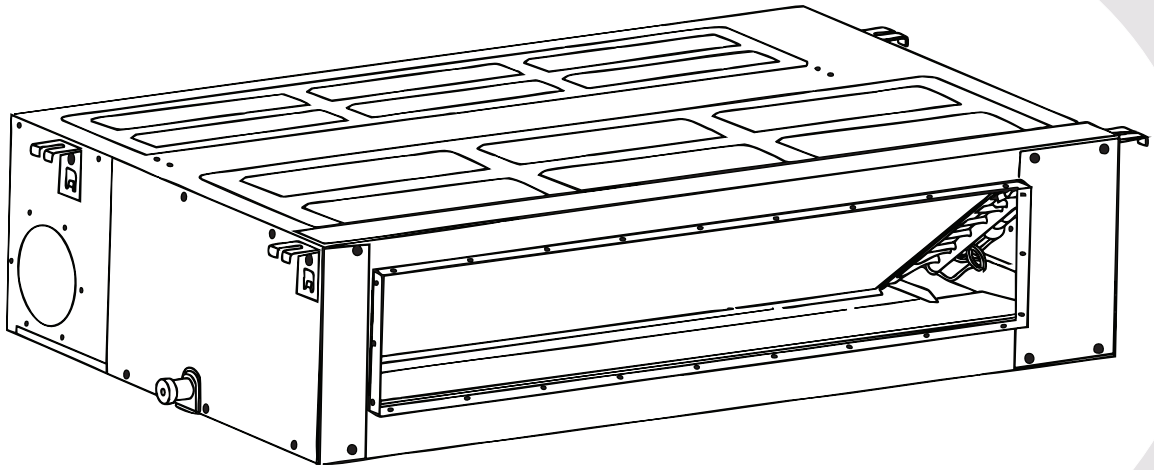
DUCTED MINI SPLIT SYSTEM AIR CONDITIONER / HEAT PUMP

PIONEER®

RYT-24 Inverter Series

For 9,500-22,000 BTU/hr Systems

Quantum Ultra (R-454B) - RT Indoor and YN Outdoor



Disassembly Manual

Note

Intended for use with Single-Zone Split Systems. If the indoor sections will be installed as part of a Multi-Zone System, refer to the supplemental instructions provided with the Multi-Zone Outdoor Unit for complete and accurate guidance. Certain specifications—such as minimum floor area requirements—may differ, and are outlined in more detail within the Multi-Zone Section documentation.

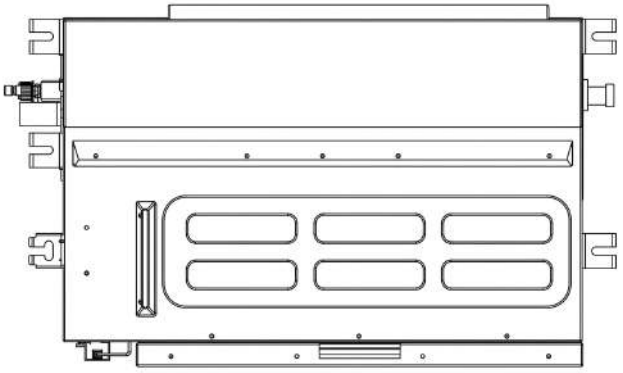
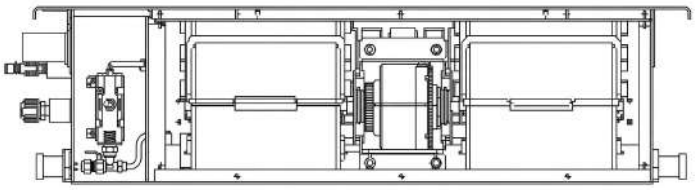
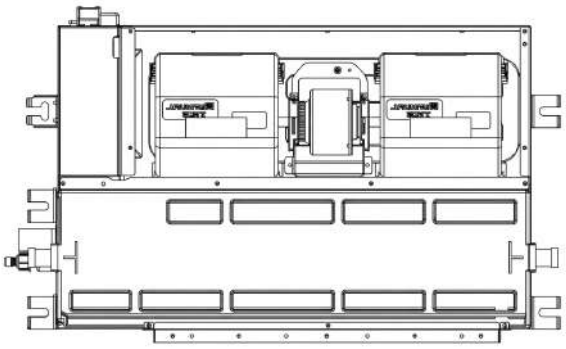
Model Numbers

Note

The serial number is located behind the electric control box cover on each unit.

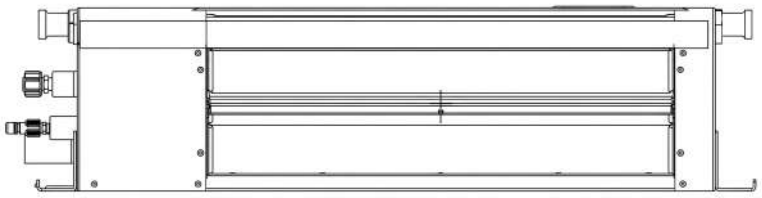
Model	Full System	Indoor Unit	Outdoor Unit
9.5K	RYT009GLSI24RL	RT009GLSILCFHG	YN009GLSI24RPG
11K	RYT012GLSI24RL	RT012GLSILCFHG	YN012GLSI24RPG
17K	RYT018GLSI24RL	RT018GLSILCFHG	YN018GLSI24RPG
22K	RYT024GLSI24RL	RT024GLSILCFHG	YN024GLSI24RPG

Indoor Unit Disassembly

Steps	Reference Photo
Before disassembly	
1. Remove the Filter	
A. Remove the filter assembly from the unit. B. Remove the filter from the filter assembly.	
2. Remove the Base, Air Return Plate, and Wi-Fi Module	
A. Remove the screws that secure the base to the left and right side panels and the center partition, then remove the base. B. Remove the screws that secure the air return plate to the left side panel and the electric control box, then remove the air return plate. C. Remove the Wi-Fi module cover, disconnect the USB cable, then remove the Wi-Fi module.	

3. Remove the Front Panel

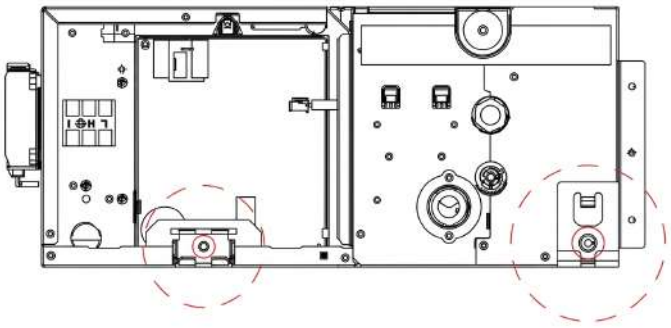
A. Remove the screws that secure the front panel, then remove the panel.



4. Remove the Electric Control Box Cover and Hooks

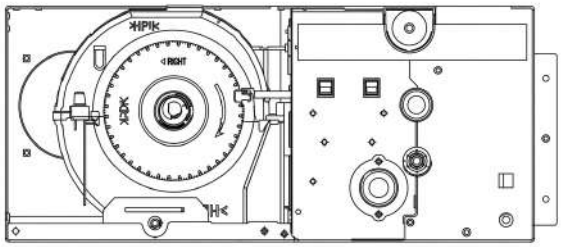
A. Remove the screws that secure the electric control box cover, then remove the cover.

B. Remove the screws from the hooks, then remove the hooks.



5. Remove the Electric Control Box

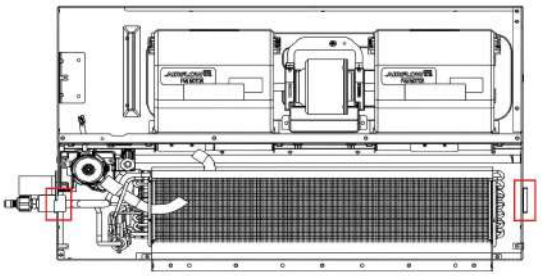
A. Remove the screws that secure the electric control box, then remove the box.



6. Remove the Base Plate and Water Tray

A. Remove the base plate.

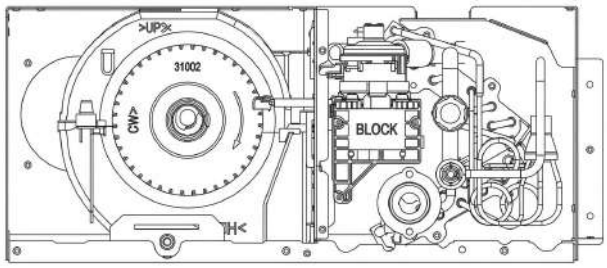
B. Lift the drain nozzles on both sides, then remove the water tray.



7. Remove the Right Side Plate and Drain Mounting Assembly

A. Remove the screws that secure the right side plate to the evaporator end plate, top plate, and drain mounting assembly, then remove the right side plate.

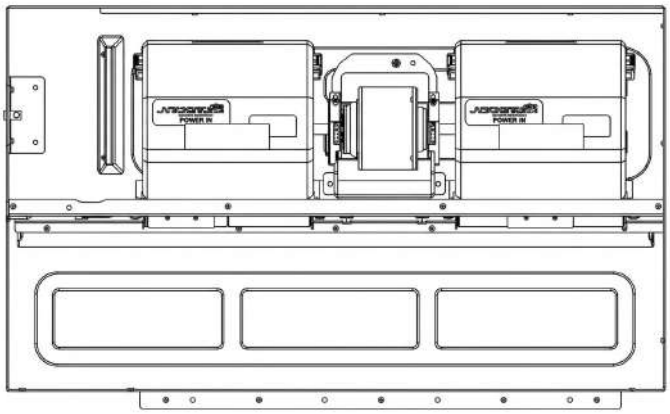
B. Remove the drain nozzle from the drain mounting assembly, then remove the assembly.



8. Remove the Water Pump Assembly and Left Side Panel

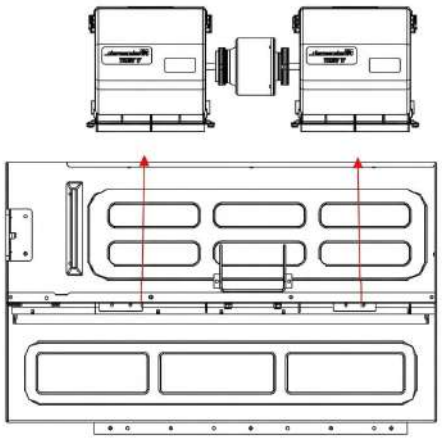
A. Remove the screws that secure the water pump assembly to the center partition, then remove the water pump assembly.

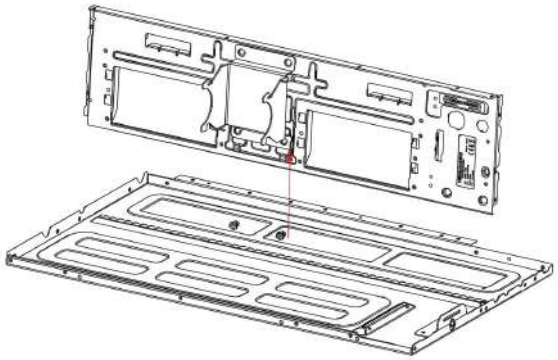
B. Remove the screws that secure the left side panel assembly to the evaporator module, top panel, and center partition, then remove the left side panel assembly.



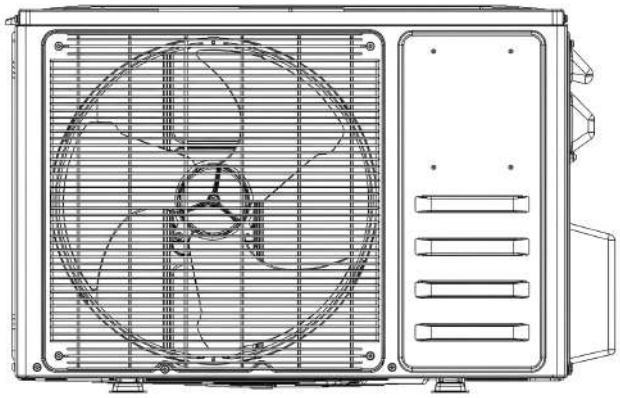
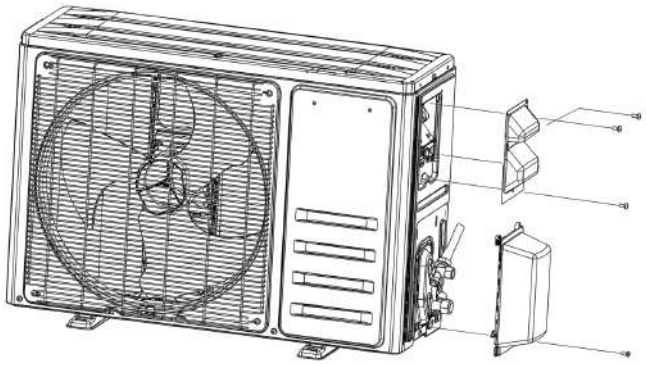
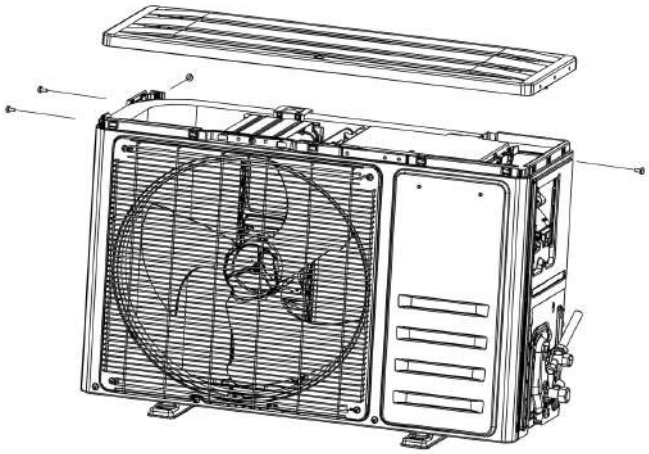
9. Remove the Volute Assembly and DC Fan Motor

A. Remove the motor retaining clip, then remove the volute assembly and DC fan motor together in the direction of the arrow.



10. Remove the Center Partition Assembly	
A. Remove the screws that secure the center partition assembly to the top panel, then remove the center partition assembly.	

Outdoor Unit Disassembly

Steps	Reference Photo
Before disassembly	
1. Remove the PCB Cover, Valve Cover, and Top Cover	
A. Remove the screw that secures the PCB cover, then remove the cover from the unit (see image 1A). B. Remove the screw that secures the valve cover, then remove the cover from the unit (see image 1A). C. Remove the screws that secure the top cover to the top, left, and right sides of the unit, then remove the top cover (see image 1B).	**Image 1A:**  **Image 1B:** 

2. Remove the Front Grille and Front Panel

A. Remove the screws that secure the front grille to the front panel, then remove the front grille (see image 2A).

B. Remove the screws around the fan guard on the front panel (see image 2B).

C. Separate the middle plate from the base plate. Lift the front panel, then pull it out of the unit (see image 2B).

Image 2A:

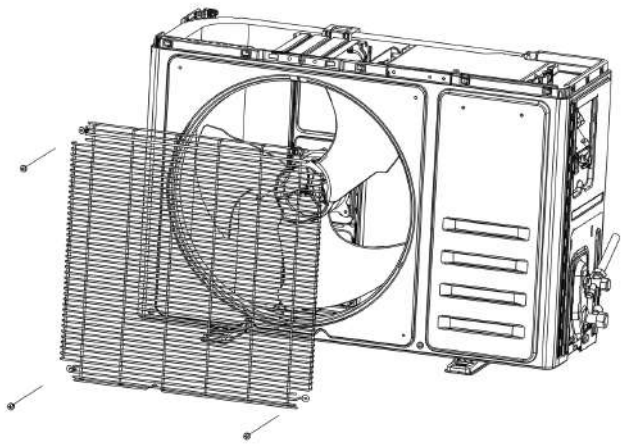
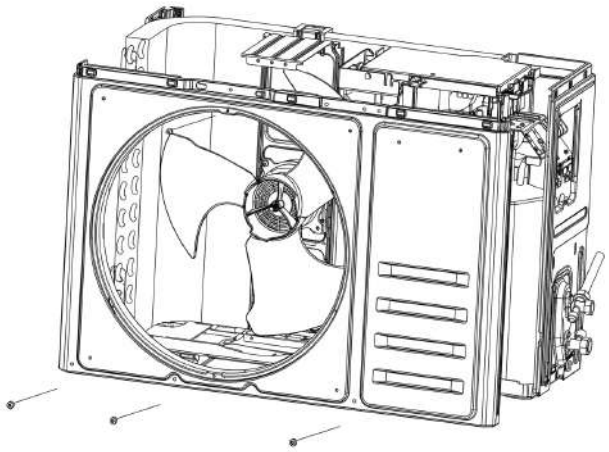


Image 2B:



3. Remove the Left and Right Plate

A. Remove the screws that secure the right plate to the electric control box, valve plate, and base plate, then remove the right plate (see image 3A).

B. Remove the screws that secure the left plate to the base plate and condenser plate, then remove the left plate (see image 3B).

Image 3A:

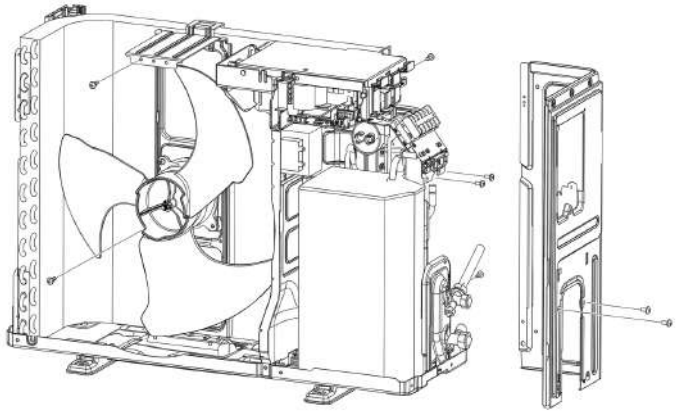
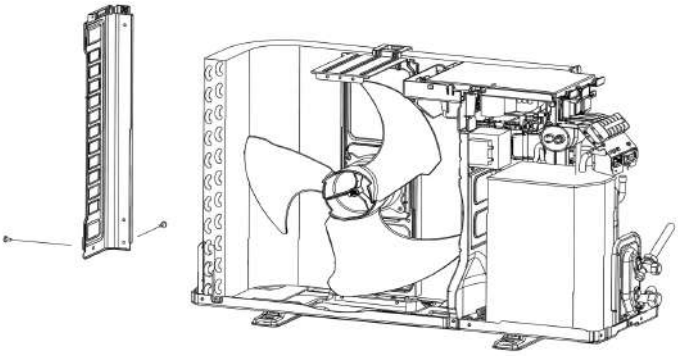
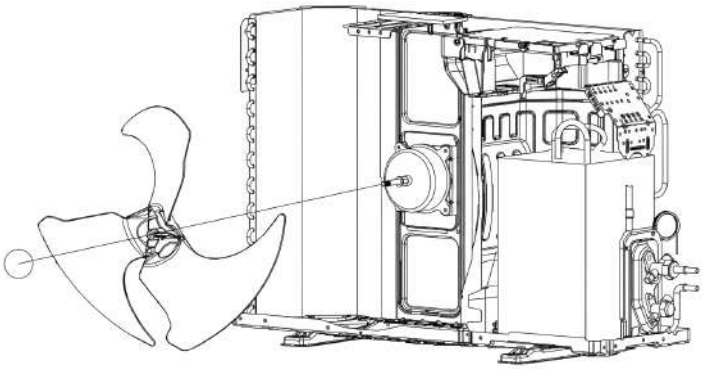


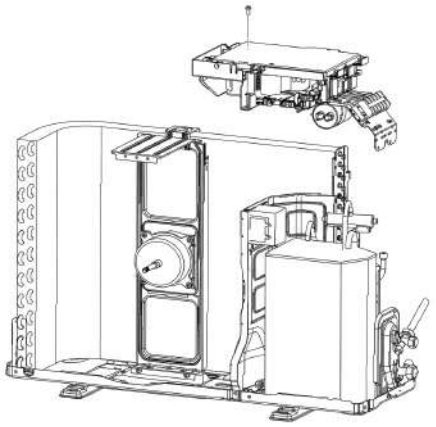
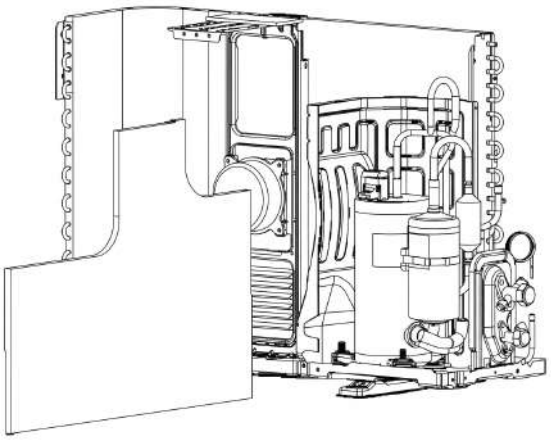
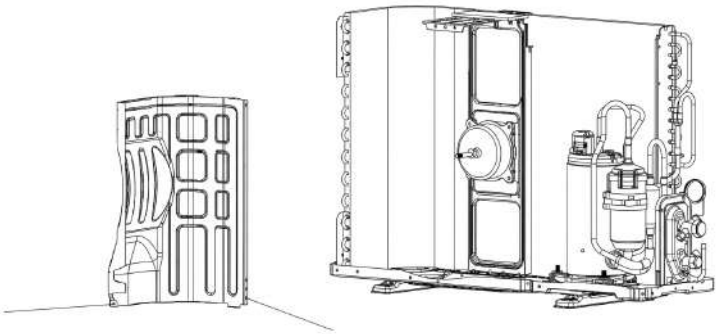
Image 3B:



4. Remove the Fan Blade

A. Unscrew the fan blade nut, then remove the fan blade.



5. Remove the Electric Control Box	
A. Remove the screws that secure the electric control box to the motor bracket. B. Loosen the wire clamp, then remove the electric control box.	
6. Remove the Noise Cotton	
A. Take out the noise cotton.	
7. Remove the Partition Plate	
A. Remove the screw that secures the partition plate to the unit, then remove the partition plate.	

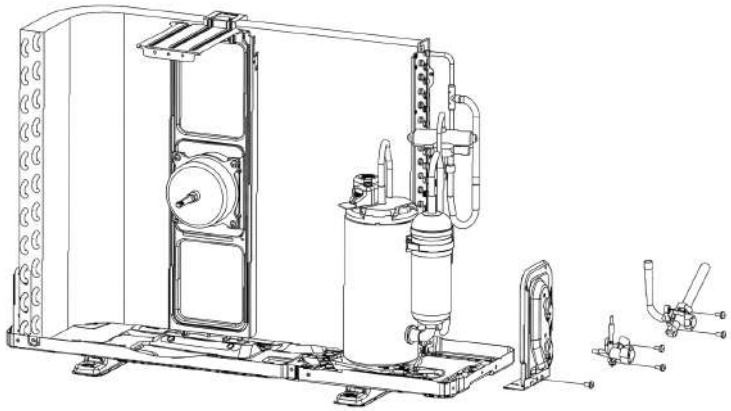
8. Remove the 2-Way and 3-Way Valve

A. Remove the screws that secure the 2-way and 3-way valves to the valve plate and base plate.

B. Unbraze the 2-way and 3-way valves, then remove the valves.

Notes:

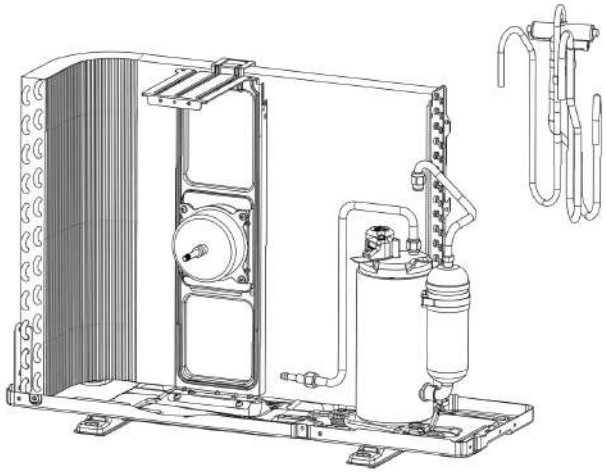
- Recover all refrigerant from the unit before brazing or unbrazing.
- Use caution when working with an open flame to prevent fire and injury.



9. Remove the 4-Way Valve

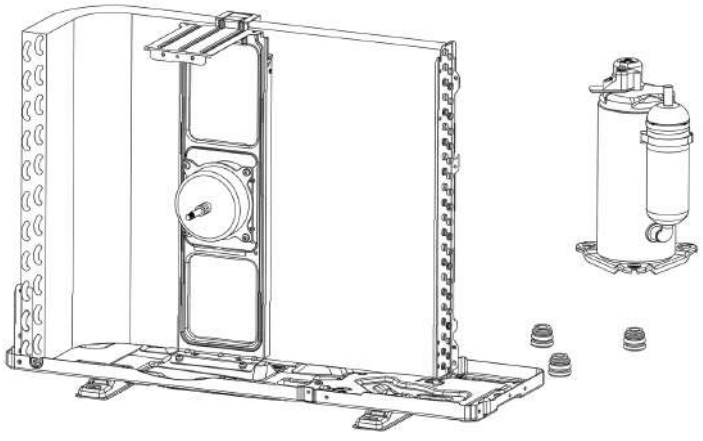
A. Unbraze the 4-way valve, then remove it from the unit.

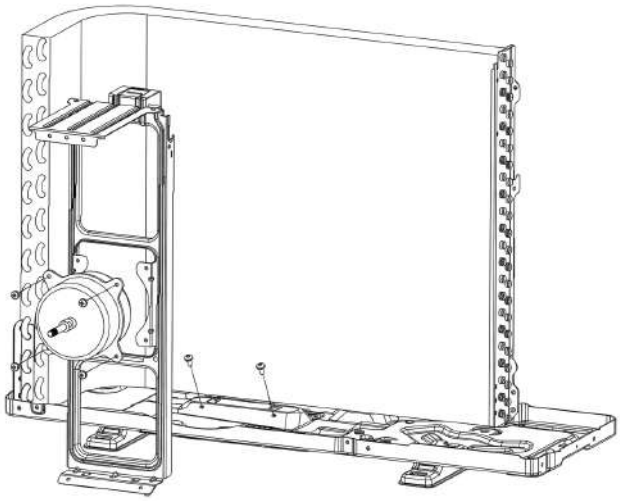
Note: Do not let the torch flame damage the compressor, nameplate, or other nearby components.



10. Remove the Compressor

A. Unscrew the compressor mounting nuts, then remove the compressor.



11. Remove the Fan Motor and Motor Bracket	
A. Remove the screws that secure the motor bracket to the base plate, then remove the motor bracket and fan motor together. **Note:** Do not pull on the motor wiring when removing the fan motor.	

The design and specifications of this product are subject to change without prior notice as development continues. Consult with the sales agency or manufacturer for details. Refer to the equipment nameplate for all other applicable specifications.

PIONEER®

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