NAVAC NRRD Recovery Unit Refrigerant Recovery Machine





NAVAC NRRD Recovery Unit Refrigerant Recovery Machine User Guide

Home » NAVAC » NAVAC NRRD Recovery Unit Refrigerant Recovery Machine User Guide 🖺



Contents

- 1 NAVAC NRRD Recovery Unit Refrigerant Recovery **Machine**
- 2 Specifications
- **3 Product Usage Instructions**
- **4 Frequently Asked Questions**
- 5 Refrigerant Hoses' Exhaust
- **6 Recovery Mode**
- 7 Self-purge Mode
- 8 Liquid Push/Pull Mode
- 9 Troubleshooting
- 10 Documents / Resources
 - 10.1 References



NAVAC NRRD Recovery Unit Refrigerant Recovery Machine



Specifications

- Product Name: NRRD Recovery Unit
- Operation Modes: Recovery Mode, Self-purge Mode, Liquid Push/Pull Mode
- Automatic Functions: Self-purging cycle, Low pressure protection
- Capacity: Suitable for refrigerant recovery in air conditioning systems

Product Usage Instructions

Recovery Mode:

- 1. Connect hoses correctly and tight by referring to the connection diagram.
- 2. Open the vapor and liquid valves of the manifold gauge.
- 3. Loosen the connecting hoses of the refrigerant tank.
- 4. Open the valve to the hoses.

Start Operation:

- 1. Turn the switch to position START.
- 2. Press the button.
- 3. Turn the switch to position 2 to start purging the air out of the hoses.
- 4. When the input gauge reaches 15 of vacuum (-1 bar), switch to position 3 for self-purge.
- 5. Once the input gauge reaches 15 (-1 bar) again, switch to position 0 to finish self-purge.
- 6. Tighten the hoses at the refrigerant tank.

Finish Operation:

1. Press the button.

Self-purge Mode:

The unit must be purged after each use to prevent component damage and environmental pollution.

Ready for Operation:

- 1. The unit stops automatically when recovery is finished.
- 2. Press the button.
- 3. Turn the switch slowly to position 3 to start purge.
- 4. When the self-purging cycle is finished, the unit goes into a vacuum.

Finish Operation:

- 1. Turn the switch to position 0.
- 2. Press the button.
- 3. Close the check valve to hoses.
- 4. Turn off the vapor valve of the refrigerant tank.

Liquid Push/Pull Mode:

An electric scale is needed to monitor the recovery process and prevent overfilling.

Ready for Operation:

- 1. Connect the hoses correctly and firmly by referring to the connection diagram.
- 2. Make sure all valves are closed.

Start Operation:

Warning: When the electric scale shows that the refrigerant in the tank has reached 80% capacity, turn off the power and close the tank valves.

Frequently Asked Questions

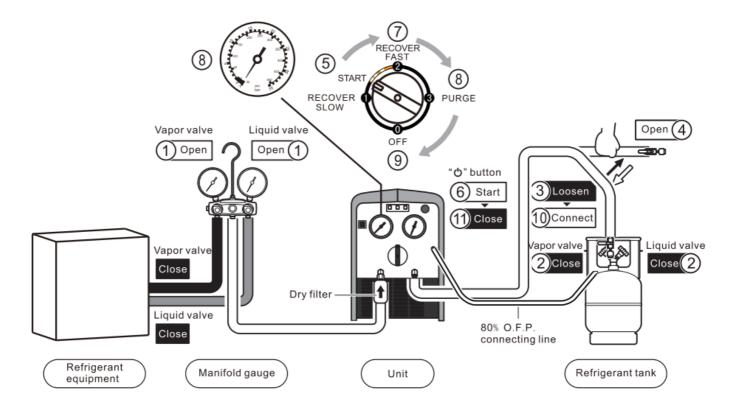
Q: How often should I purge the unit?

A: The unit must be purged after each use to prevent damage and environmental pollution caused by remaining liquid refrigerant.

Q: What should I do if compressor slugging occurs during operation?

A: If compressor slugging occurs, turn the switch to the appropriate position as indicated in the manual until slugging stops. Ensure pressure is at zero before proceeding.

Refrigerant Hoses' Exhaust



Ready for operation

- 1. Connect hoses correctly and tight, referring to the connection diagram.
- 2. Open the vapor and liquid valves of manifold gauge.
- 3. Loosen the connecting hoses of refrigerant tank.
- 4. Open the valve to the hoses.

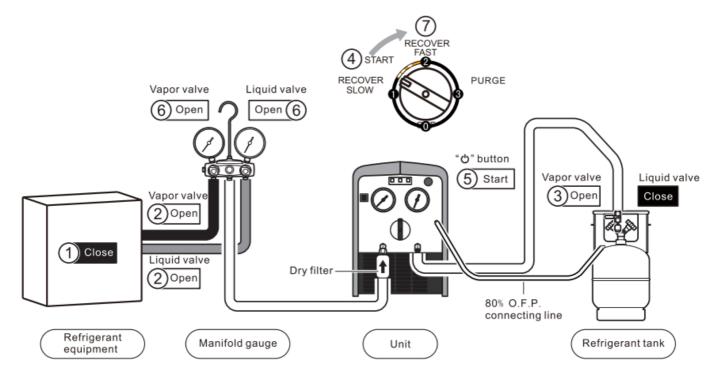
Start operation

- 1. Turn the switch to positon START.
- 2. Press **b**utton.
- 3. Turn the switch to position 2 and start purging the air out of the hoses.
- 4. While the input gauge getting to 15" of vacuum (-1 bar) turn the switch to position 3 to start selfpurge.
- 5. While the input gauge getting to 15" (-1 bar) again, turn the switch to position 0 to finish self-purge.
- 6. Tighten the hoses at refrigerant tank.

Finish operation

1. Press Obutton.

Recovery Mode



Ready for operation

- 1. Connect hoses correctly and firmly. (Please refer to the connection diagram)
- 2. Make sure all valves are closed.
- 3. Turn off the power to system equipment.
- 4. Open the vapor and liquid valves of refrigeration or air conditioning system equipment.
- 5. Open the vapor valve of the refrigerant tank.

Start operation0

- 1. Turn the switch to the position START.
- 2. Press button.
- 3. Open the liquid valve for liquid recovery. Open the vapor valve for vapor recovery.
- 4. Turn the switch slowly to positon 2 for faster recovery.
- 5. When the recovery is finished, the unit gets to the required vacuum or automatically stops by low pressure protection.

Notice

- 1. If compressor liquid slugging occurs at position 2, turn the switch to position "START" until the liquid slugging stops.
- 2. If the recovery restarts after interruption of power or fails to start,
 - 1. Turn the switch to positon START, turn on the power switch, press START button for liquid recovery.
 - 2. Turn the switch to position 3,turn on the power switch, press START button for vapor recovery

Notice

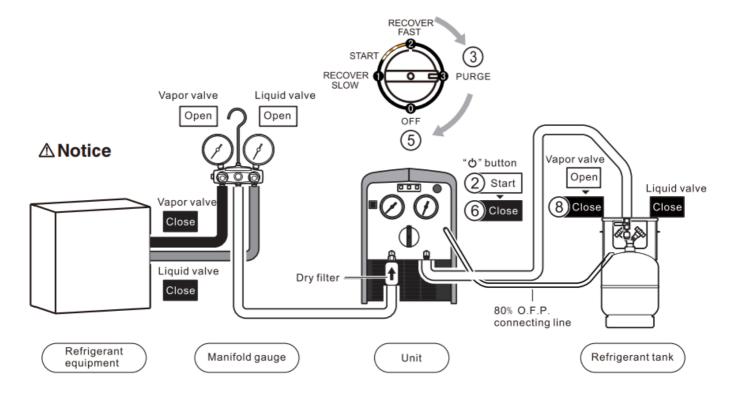
1. Turning the switch to position 1 gets a stable recovery of liquid with low speed of 1.2kg/Min.

- 2. If compressor slugging occurs at the position 1 turn the switch slowly to position START until slugging stops. Make sure the pressure is at zero, because it doesn't work at 10.
- 3. There is no need to turn off the power and it can do the self-purge cycle automatically.

Self-purge Mode

Notice

The unit must be purged after each use; Liquid refrigerant remained may expand and damage the components and pollute the environment.



Ready for operation

- 1. The unit stops automatically when recovery is finished.
- 2. Press O button.
- 3. Turn the switch slowly to position 3 to start purge.
- 4. When the self-purging cycle is finished, the unit goes into a vacuum.

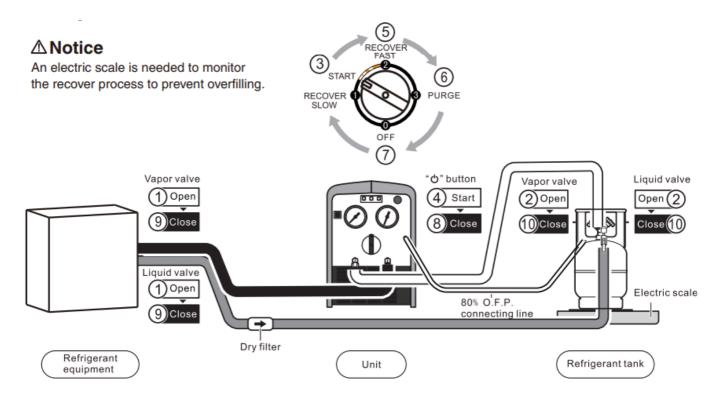
Finish operation

- 1. Turn the switch to position 0.
- 2. Press Obutton.
- 3. Close the check valve to hoses.
- 4. Turn off the vapor valve of refrigerant tank.

Liquid Push/Pull Mode

Notice

An electric scale is needed to monitor the recover process to prevent overfilling.



Ready for operation

- 1. Connect the hoses correctly and firmly. (Please refer to the connection diagram)
- 2. Make sure all valves are closed.

Start operation

Warning

When the electric scale shows that the refrigerant in the tank has reached 80% capacity, turn the power off and close the tank valves.

- 1. Open the vapor and liquid valves of the system equipment.
- 2. Open the vapor and liquid valves of the recovery tank.
- 3. Turn the switch to position START.
- 4. Press Obutton.
- 5. Turn the switch to position 2 to start push/pull mode. When the display of electric scale stops rising or increases very slowly, it means the liquid recovery is finished, and it is time to switch to vapor recovery.
- 6. Turn the switch to position PURGE and follow self-purge mode instructions to purge the refrigerant vapor.
- 7. Turn the switch to position OFF.
- 8. Press Obutton.
- 9. Close the vapor and liquid valves of the system equipment
- 10. Close the vapor and liquid valves on the recovery tank.
- 11. Connect the hoses again and recover the vapor from the system equipment according to recovery mode instructions.

Troubleshooting

| FAULT | CAUSE | SOLUTION |
|---|--|---|
| Fan no response | Mechanical damage | 1.Replace the fan 2.Factory service required |
| | | 1.a.When recover the liquid, |
| Compressor not s tart (Jammed) | | turn the knob to "SRART" positon, then resta |
| | External pressure is too high | b.When recover the vapor turn the knbo to "PURGE" / "3" position,then restart |
| | 2. Motor failure or other components damag | 2.a.Replace the components |
| | ed | b.Factory service is needed |
| | 1.a.Shut off by high pressure protection, red alarm light turns on. | |
| Press the "" butto n but compressor no respense | b.Low pressure protection,green alarm light turns on(recovery not finished) | 1.a.Lower the pressure of the unit b.Check if the hoses are well connected c.Check the c |
| | c.80%O.F.P. cable not well connected with t ank. | onnection |
| | 2.The " " light is not bright,Internal wiring falu | 2.a.Be checked by qualified technician b.Fac tory service required |
| | t. | |
| | High prssure shut off due to wrong operation, such as: | |
| | Outlet valve not open, Refrigerant tank valve not open | Read carefully the OperationManual and f ollow the instructions while operating |
| Compressor start but stops within a few minutes | 2. Motor thermal protector shuts off 3.Circuit breaker shuts off 4.a.80% over filling protection | 2. The compressor will restart automatically after a few minutes |
| | red alarm light turns on b.Recovery is over a nd the unit is | 3. Cooling the Circuit breaker dowm and pre ss "circuit breaker" to restart after 5 minutes. |
| | under low pressure protection,green alarm li ght turns light | 4.a.Replace with an empty recovery tank b. Refer to step of self-purge method c.Turn th e knob to "START" position, |
| | c. Overload during liquid recovery,red | then restart |
| | alarm light goes out after a flash | |
| Low recovery spe | The pressure of refrigerant tank is too hig | 1.Cool the tank down can help bringing dow n the pressure |
| | h 2. Piston ring of the compressor is damaged | 2.a.Replace the components b.Factory servi ce required |
| | | |

| Unit doesn't pull o | 1.Connecting hoses are loose 2.Leakage in | 1.Tighten the hose connections 2.a.Replace the components |
|---------------------|---|---|
| ut a vacuum | the unit | b.Factory service required |

Warning

It's not suitable for class A3 refrigerants and toxic refrigerants of class B2,B3.

Distributed by:

<u>Valuetesters.com</u>

sales@valuetesters.com

Tel: 602-795-8292. Fax: 602-795-4624

Documents / Resources



NAVAC NRRD Recovery Unit Refrigerant Recovery Machine [pdf] User Guide NRRD Recovery Unit Refrigerant Recovery Machine, NRRD, Recovery Unit Refrigerant Recovery Machine, Refrigerant Recovery Machine, Machine

References

• User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.