

NAVAC NRRD Recovery Unit User Guide

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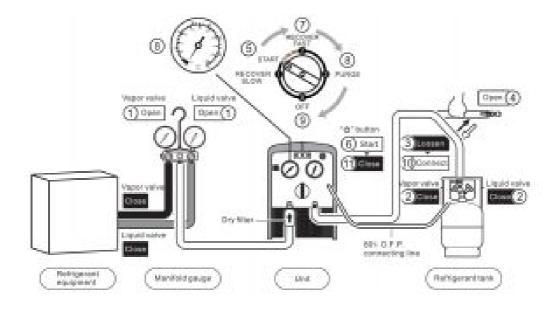
NAVAC NRRD Recovery Unit User Guide



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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

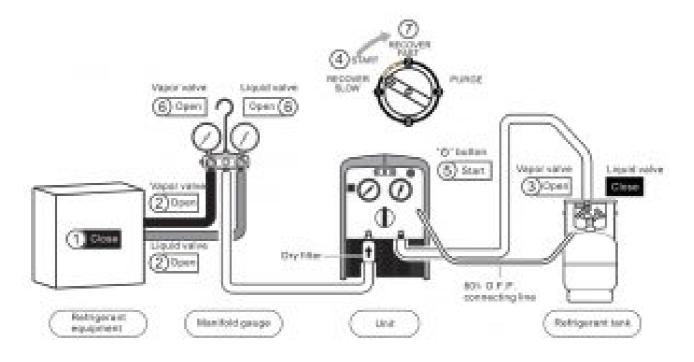
Start operation

- 1. Turn the switch to positon START.
- 2. Press 🖒 button.
- 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 **b** button.

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 operation

- 1. Turn the switch to the position START.
- 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



- 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,
 - 2.1 Turn the switch to positon START, turn on the power switch, press START button for liquid recovery.
 - 2.2 Turn the switch to position 3,turn on the power switch, press START button for vapor recovery



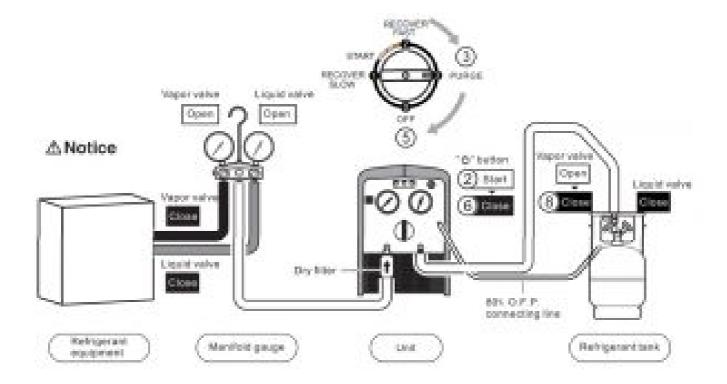
1. Turning the switch to position 1 gets a stable recovery of liquid with low speed of 1.2kg/Min.

- 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 cando theself-purge cycleautomatically.

Self-purge Mode



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 reco very is finished.
- 2. Press 🖒 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.

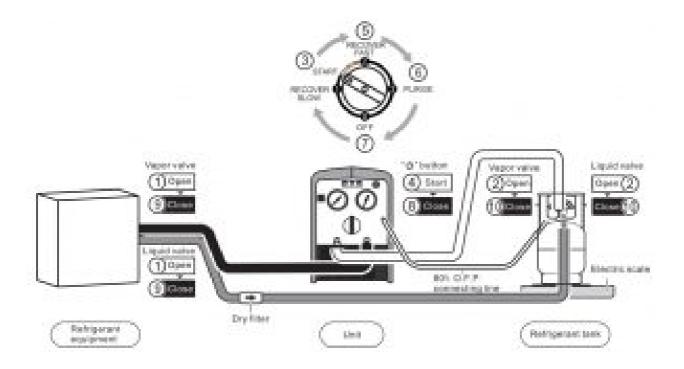
Finish operation

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

Liquid Push/Pull Mode



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



Ready for operation

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

Start operation



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 **b** button.
- 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 🖒 button.
- 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
Compressor not s tart (Jammed)	External pressure is too high Motor failure or other components damaged	1.a.When recover the liquid, turn the knob to "SRART" positon, then resta rt b.When recover the vapor turn the knbo to " PURGE" / "3" position,then restart 2.a.Replace the components b.Factory service is needed
Press the "" butto n but compressor no respense	 a.Shut off by high pressure protection, re d alarm light turns on. Low pressure protection,green alarm ligh t turns on(recovery not finished) .80%O.F.P. cable not well connected with tank. The "" light is not bright,Internal wiring fal ut. 	1.a.Lower the pressure of the unit b.Check if the hoses are well connected c.Check the c onnection 2.a.Be checked by qualified technician b.Fa ctory service required
Compressor start but stops within a few minutes	 High prssure shut off due to wrong opera tion, such as: Outlet valve not open, Refrigerant tank v alve not open Motor thermal protector shuts off Circuit b reaker shuts off 4.a.80% over filling prot ection red alarm light turns on b.Recovery is over a nd the unit is under low pressure protection, green alarm light turns light c. Overload during liquid recovery, red alarm light goes out after a flash 	 Read carefully the OperationManual and follow the instructions while operating The compressor will restart automatically after a few minutes Cooling the Circuit breaker down and press "circuit breaker" to restart after 5 minutes. a.Replace with an empty recovery tank b. Refer to step of self-purge method c.Turn the knob to "START" position, then restart

Low recovery spe ed	 The pressure of refrigerant tank is too hig h Piston ring of the compressor is damaged 	 Cool the tank down can help bringing do wn the pressure Replace the components b.Factory servic e required
Unit doesn't pull o ut a vacuum	Connecting hoses are loose 2.Leakage i n the unit	 Tighten the hose connections 2.a.Replac e the components Factory service required

Warning

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

Documents / Resources



Manuals+,