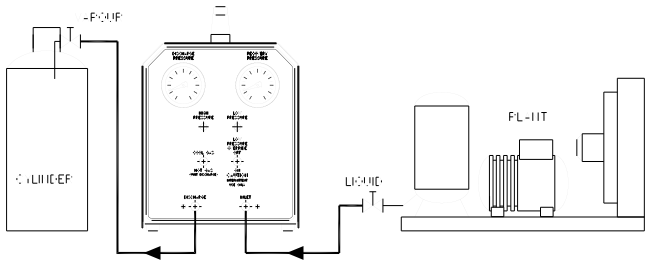
Refrigerant Recovery - Pass Through Method



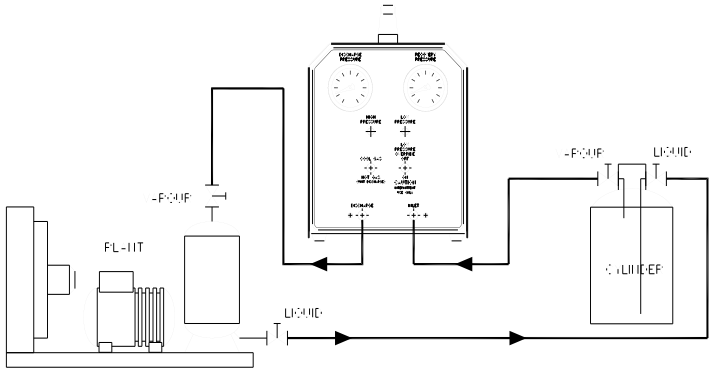
This method of recovery uses the unit to pull the refrigerant from the plant and discharge it direct to a suitable recovery cylinder. This method is best suited to applications where up to 10kg of refrigerant is to be recovered

- Use a manifold gauge set to connect to both high and low sides of the plant. If possible connect to the plant on the high side at a point where the refrigerant will be in liquid form. Connect the centre hose to the unit inlet.
- Connect the discharge of the unit to a suitable recovery cylinder. Ensure that the recovery cylinder has sufficient free volume to accept the refrigerant you are going to recover.
- Open the valves at the plant and cylinder.
- Set the selector switch to Coolgas.
- Switch the Unit ON.

The unit will start to recover refrigerant. You will hear the *CARESAVER* click as it takes some refrigerant onboard. When all of the liquid refrigerant has been recovered the clicking will stop and the pressure on the unit gauge will begin to fall. When the pressure reaches 0 Bar the unit compressor will automatically stop.

- Switch the unit OFF
- Close all valves and disconnect hoses.
- On applications using piercing pliers, switch the LP override ON and allow the unit to run for 5 minutes maximum to complete the recovery.

Refrigerant Recovery - Push - Pull Method



This method of recovery uses the unit to pressurize the refrigerant in the plant s that it can be discharged directly to a suitable recovery cylinder. This method i best suited to applications where more than 10kg of refrigerant is to be recovered.

- Connect the inlet connection of the unit to the vapour port of a suitable twi ported recovery cylinder.
- Connect the discharge of the unit to a suitable point on the plant where th refrigerant will be in vapour form.
- Connect a hose from a liquid port on the plant to the liquid connection on th recovery cylinder.
- Open the valves at the plant and cylinder.
- Switch the unit ON.
- Set the selector switch to Hotgas.

The unit will start to recover refrigerant from the cylinder, which will reduce th pressure within the cylinder. At the same time the unit will discharge into the plan which will raise the pressure. The pressure difference between the plant and th cylinder will result in refrigerant transfer.

When the bulk of the refrigerant has been recovered, reconfigure the set up to th Pass Through method to remove the remaining refrigerant vapour.

Hints and Tips

If you wish to provide maximum protection to the unit during use it is recommended to fit a ceramic core filter in the suction hose during operation. We recommend a KMP WEU162F drier for all applications. Using the hoses provided with integral shut off valves will enable the unit to be disconnected from the cylinder without venting the contents of the hose to atmosphere.

It is recommended that the schraeder valve depressors are removed from hoses if not required. A valve core remover is used in preference to a depressor.

Heat Exchanger - The unit uses a heat exchanger during the recovery process. After a period of time oil from recovered liquid will collect in the bottom of the shell and this can be drained via the removable cap situated under the unit.

It will be necessary to discharge the residual refrigerant between jobs, to avoid any mixing.

Connect the discharge to a recovery cylinder and set the selector switch to Hotgas/Self discharge. Set the LP override switch ON and briefly run the unit.

Safety Notes

Every effort has been made to make the unit as easy and safe to operate as possible but operators should always follow these safety precautions.

- Always wear appropriate eye protection, clothing and gloves when handling refrigerant.
- Only a trained operator should handle refrigerants, it is very important that you understand thoroughly the expansion & compression properties of the refrigerant.
- Never overfill a cylinder. Fill to only 60% of the volume with liquid to leave room for expansion.
- Do not use disposable refrigerant cylinders. This is very dangerous and could result in serious injury if the cylinder ruptures.
- If a compressor burn out is suspected on the appliance carry out a refrigerant test for acid. If recovery is still to be undertaken fit a burn out filter in the hose line during recovery.
- Make sure that the plant is switched off before attempting to recover refrigerant.
- Do not leave the unit unattended whilst recovery is in progress.

NB: Improper use of this equipment will invalidate the warranty

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Environmental Engineering

CARESAVER Universal Instruction Manual

Introduction Iss. 1

The *CARESAVER* Universal Refrigerant Recovery Units are designed as compact easy to use service tools. The units will remove refrigerants in liquid or vapou state from plant direct to a suitable recovery cylinder.